# **BLAST Basic Local Alignment Search Tool**

•

Edit and Resubmit Save Search Strategies Formatting options Download

# **Nucleotide Sequence (9599 letters)**

Results for: Icl|43657 None(9599bp)

Your BLAST job specified more than one input sequence. This box lets you choose which input sequence to show BLAST results for.

**Query ID** 

Icl|43657

Description

None

Molecule type

nucleic acid

**Query Length** 

9599

#### **Database Name**

pat

### Description

Nucleotide sequences derived from the Patent division of GenBank

### **Program**

BLASTN 2.2.21+ Citation

#### Reference

Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000), "A greedy algorithm for aligning DNA sequences", J Comput Biol 2000; 7(1-2):203-14.

Other reports: Search Summary (Taxonomy reports) [Distance tree of results]

# **Search Parameters**

Program	blastn
Query range	0-9598
Word size	28
Expect value	10
Hitlist size	100
Match/Mismatch scores	1,-2
Gapcosts	0,0
Low Complexity Filter	Yes
Filter string	L;m;
Genetic Code	1

### **Database**

Posted date Sep 6, 2009 4:41 AM Number of letters 5,649,747,954 Number of sequences 10,944,200 Entrez query none

## Karlin-Altschul statistics

Params	Ungapped	Gapped
Lambda	1.33271	1.28
K	0.620991	0.46
Н	1.12409	0.85

### **Results Statistics**

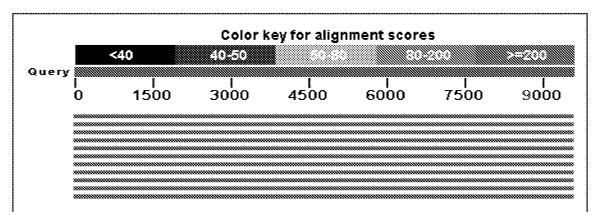
Length adjustment	34
Effective length of query	9565
Effective length of database	5277645154
Effective search space	50480675898010
Effective search space used	50480675898010

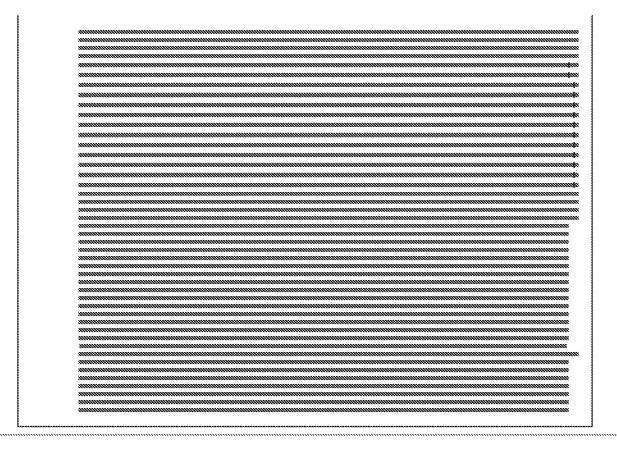
Graphic Summary

# Distribution of 130 Blast Hits on the Query Sequence

[?]

An overview of the database sequences aligned to the query sequence is shown. The score of each alignment is indicated by one of five different colors, which divides the range of scores into five groups. Multiple alignments on the same database sequence are connected by a striped line. Mousing over a hit sequence causes the definition and score to be shown in the window at the top, clicking on a hit sequence takes the user to the associated alignments. New: This graphic is an overview of database sequences aligned to the query sequence. Alignments are color-coded by score, within one of five score ranges. Multiple alignments on the same database sequence are connected by a dashed line. Mousing over an alignment shows the alignment definition and score in the box at the top. Clicking an alignment displays the alignment detail.





# Descriptions

Legend for links to other resources: UniGene GEO Gene Structure Map Viewer

	<pre>producing significant alignments: ders to sort columns)</pre>			
	Sequence 1 from Patent WO2009030872	1.773e+041.773e+04100%	0.0	100%
	Sequence 13 from patent US 7473772		0.0	100%
	Sequence 55 from Patent WO2008004992	1.773e+041.773e+04100%	0.0	100%
FB361094.1	Sequence 13 from Patent WO2006110762	1.773e+041.773e+04100%	0.0	100%
	Sequence 1 from patent US 7361503	1.773e+041.773e+04100%	0.0	100%
	NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS	1.773e+041.773e+04100%	0.0	100%
EA268426.1	Sequence 13 from patent US 7244585	1.773e+041.773e+04100%	0.0	100%
EA110745.1	Sequence 2 from patent US 7201911	1.773e+041.773e+04100%	0.0	100%
EA029856.1	Sequence 13 from patent US 7141405	1.773e+041.773e+04100%	0.0	100%
EA019704.1	Sequence 6 from patent US 7129342	1.773e+041.773e+04100%	0.0	100%
AR916157.1	Sequence 67 from patent US 7084266	1.773e+041.773e+04100%	0.0	100%
AR119831.1	Sequence 2 from patent US 6153421	1.773e+041.773e+04100%	0.0	100%
DL479449.1	YEAST-BASED THERAPEUTIC FOR CHRONIC HEPATITIS C INFECTION	1.761e+041.761e+04100%	0.0	99%
GC661264.1	Sequence 19 from patent US 7439042	1.761e+041.761e+04100%	0.0	998
DI166564.1	YEAST-BASED THERAPEUTIC FOR CHRONIC HEPATITIS C INFECTION	1.761e+041.761e+04100%	0.0	99%
	Sequence 17 from patent US 7288369	1.737e+041.774e+04100%	0.0	100%
	Sequence 17 from patent US 6921634	1.737e+041.774e+04100%	0.0	100%
GP244623.1	Sequence 1 from patent US 7504255	1.732e+041.761e+04100%	0.0	99%
DL487744.1	FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF	1.732e+041.761e+04100%	0.0	99%
FB361093.1	Sequence 12 from Patent WO2006110762	1.732e+041.761e+04100%	0.0	99%
EA263001.1		1.732e+041.761e+04100%	0.0	99%
CS541301.1	Sequence 49 from Patent WO2007013882	1.732e+041.761e+04100%	0.0	998
BD069982.1	Functional DNA clone for hepatitis C virus (HCV) and uses thereof	1.732e+041.761e+04100%	0.0	998
AR110828.1	Sequence 1 from patent US 6127116	1.732e+041.761e+04100%	0.0	99%
DL487747.1	(HCV) AND USES THEREOF	1.732e+041.760e+04100%		99%
EA263004.1	Sequence 5 from patent US 7235394	1.732e+041.760e+04100%	0.0	99%
BD069985.1	Functional DNA clone for hepatitis C virus (HCV) and uses thereof	1.732e+041.760e+04100%	0.0	99%
AR110831.1	Sequence 5 from patent US 6127116	1.732e+041.760e+04100%	0.0	99%
GN088768.1	Sequence 3 from Patent WO2009030872	1.731e+041.731e+04100%	0.0	99%
EA372966.1	Sequence 2 from patent US 7314710	1.713e+041.713e+04100%	0.0	98%
DD070077.1	PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS	1.713e+041.713e+04100%	0.0	98%
AX663428.1	Sequence 2 from Patent WO02088338	1.713e+041.713e+04100%	0.0	98%
DL487761.1	FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF	1.688e+041.688e+0497%	0.0	99%
EA263018.1	Sequence 19 from patent US 7235394	1.688e+041.688e+0497%	0.0	99%

		4 600 044 600 04050		
BD069999.1	Functional DNA clone for hepatitis C virus (HCV) and uses thereof	1.688e+041.688e+0497%	0.0	99%
AR110845.1	Sequence 19 from patent US 6127116	1.688e+041.688e+0497%	0.0	99%
GM680540.1	Sequence 13 from Patent EP1947185	1.688e+041.688e+0498%	0.0	99%
DI128636.1	VACCINES CONTAINING RIBAVIRIN ANDMETHODS OF USE THEREOF	1.688e+041.688e+0498%	0.0	99%
EA281575.1	Sequence 13 from patent US 7261883	1.688e+041.688e+0498%	0.0	99%
EA269460.1	Sequence 13 from patent US 7244715	1.688e+041.688e+0498%	0.0	99%
EA267242.1	Sequence 13 from patent US 7244422	1.688e+041.688e+0498%	0.0	99%
EA264407.1	Sequence 13 from patent US 7241440	1.688e+041.688e+0498%	0.0	99%
BD442677.1	VACCINES CONTAINING RIBAVIRIN AND METHODS OF USE THEREOF	1.688e+041.688e+0498%	0.0	99%
AR640519.1	Sequence 13 from patent US 6858590	1.688e+041.688e+0498%	0.0	99%
AR453138.1	Sequence 13 from patent US 6680059	1.688e+041.688e+0498%	0.0	99%
AX441173.1	Sequence 13 from Patent WO0213855	1.688e+041.688e+0498%	0.0	99%
AR030378.1	Sequence 1 from patent US 5861267	1.687e+041.687e+0497%	0.0	99%
AR607374.1	Sequence 7 from patent US 6821955	1.665e+041.665e+0497%	0.0	98%
DI026879.1	A detecting method of hepatitis C virus using recombinant mixed antigens derived from HCV and a diagnostic kit thereof	1.541e+041.541e+04100%	0.0	95%
DI040069.1	NANBV DIAGNOSTICS: POLYNUCLEOTIDES USEFUL FOR SCREENING FOR HEPATITIS C VIRUS	1.520e+041.520e+0497%	0.0	95%
BD295096.1	NANBV DIAGNOSTICS: POLYNUCLEOTIDES USEFUL FOR SCREENING FOR HEPATITIS C VIRUS	1.520e+041.520e+0497%	0.0	95%
BD080334.1	Hepatitis C virus asialoglycoprotein	1.520e+041.520e+0497%	0.0	95%
AR176483.1	Sequence 9 from patent US 6312889	1.520e+041.520e+0497%	0.0	95%
E66593.1	Hepatitis C virus asialoglycoprotein	1.520e+041.520e+0497%	0.0	95%
I81885.1	Sequence 9 from patent US 5712087	1.520e+041.520e+0497%	0.0	95%
171894.1	Sequence 9 from patent US 5683864	1.520e+041.520e+0497%	0.0	95%
DM170404.1	HEPATITIS C VIRUS(HCV)POLYPEPTIDES	1.516e+041.516e+0497%	0.0	95%
DL212380.1	HEPATITIS C VIRUS(HCV)POLYPEPTIDES	1.516e+041.516e+0497%	0.0	95%
DJ491512.1	HEPATITIS C VIRUS (HCV) POLYPEPTIDES	1.516e+041.516e+0497%	0.0	95%
DJ047428.1	HEPATITIS C VIRUS(HCV) POLYPEPTIDES	1.516e+041.516e+0497%	0.0	95%
DD495902.1	HEPATITIS C VIRUS(HCV) POLYPEPTIDES		0.0	95%
AR301300.1	Sequence 1 from patent US 6538123		0.0	95%
AR166930.1	Sequence 1 from patent US 6284249		0.0	95%
DI039725.1	COMBINATIONS OF HEPATITIS C VIRUS(HCV)ANTIGENS FOR USE IN IMMUNOASSAYS FOR ANTI-HCV ANTIBODIES	1.514e+041.514e+0497%	0.0	95%
AR118747.1	Sequence 176 from patent US 6150087	1.513e+041.513e+0497%	0.0	95%
E08264.1	cDNA of Hepatitis C virus,HC-J1	1.487e+041.487e+0498%	0.0	94%
E08263.1	gRNA of Hepatitis C virus,HC-Jl	1.486e+041.486e+0498%	0.0	948
AX100563.1	Sequence 1 from Patent WO0121807	1.483e+041.758e+0499%	0.0	100%
BD426989.1	METHODS FOR CULTURING HCV IN EUKARYOTIC CELLS	1.482e+041.482e+0495%	0.0	95%
BD091382.1	HCV cultivation method in eucaryotic cells	1.482e+041.482e+0495%	0.0	95%
108294.1	Sequence 1 from Patent EP 0388232	1.482e+041.482e+0495%	0.0	95%
AR118723.1	Sequence 123 from patent US 6150087	1.481e+041.481e+0495%	0.0	95%

AR118722.1	Sequence 122 from patent US 6150087	1.481e+041.481e+0495%	0.0	95%
EA110747.1	Sequence 6 from patent US 7201911	1.477e+041.477e+04100%	0.0	94%
AR119833.1	Sequence 6 from patent US 6153421	1.477e+041.477e+04100%	0.0	94%
AR118728.1	Sequence 137 from patent US 6150087	1.443e+041.443e+0493%	0.0	95%
AR118703.1	Sequence 88 from patent US 6150087	1.326e+041.326e+0486%	0.0	95%
AR916116.1	Sequence 9 from patent US 7084266	1.310e+041.422e+0490%	0.0	96%
AR916114.1	Sequence 5 from patent US 7084266	1.310e+041.417e+0490%	0.0	96%
AX057094.1	Sequence 9 from Patent WO0075338	1.310e+041.422e+0490%	0.0	96%
AX057090.1	Sequence 5 from Patent WO0075338	1.310e+041.417e+0490%	0.0	96%
AR916115.1	Sequence 7 from patent US 7084266	1.263e+041.375e+0480%	0.0	99%
AR916113.1	Sequence 3 from patent US 7084266	1.263e+041.375e+0480%	0.0	998
AX057092.1	Sequence 7 from Patent WO0075338	1.263e+041.375e+0480%	0.0	99%
AX057088.1	Sequence 3 from Patent WO0075338	1.263e+041.375e+0480%	0.0	99%
EA372967.1	Sequence 3 from patent US 7314710	1.208e+041.314e+0477%	0.0	99%
DD070078.1	PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS	1.208e+041.314e+0477%	0.0	99%
AX663429.1	Sequence 3 from Patent WOO2088338	1.208e+041.314e+0477%	0.0	99%
EA372965.1	Sequence 1 from patent US 7314710	1.188e+041.188e+0468%	0.0	99%
DD070076.1	PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS	1.188e+041.188e+0468%	0.0	99%
AX663427.1	Sequence 1 from Patent WO02088338	1.188e+041.188e+0468%	0.0	998
DI052976.1	Hepatitis C virus epitope	1.170e+041.170e+0476%	0.0	95%
I09331.1	Sequence 15 from Patent WO 8904669	1.170e+041.170e+0476%	0.0	95%
AR118696.1	Sequence 74 from patent US 6150087	1.169e+041.169e+0476%	0.0	95%
DJ065327.1	HCV Replicon Shuttle Vectors	1.108e+041.168e+0467%	0.0	99%
CS619793.1	Sequence 2 from Patent EP1801116	1.108e+041.168e+0467%	0.0	99%
GM975264.1	Sequence 19 from Patent WO2008148671	1.106e+041.165e+0467%	0.0	98%
DJ065332.1	HCV Replicon Shuttle Vectors	1.104e+041.164e+0467%	0.0	98%
CS619798.1	Sequence 7 from Patent EP1801116	1.104e+041.164e+0467%	0.0	98%
GM975250.1	Sequence 5 from Patent WO2008148671	1.101e+041.161e+0467%	0.0	98%

Alignments Select All Get selected sequences Distance tree of results Multiple alignment

```
>emb|GN088766.1|
           Sequence 1 from Patent WO2009030872
Length=9599
Score = 1.773e+04 bits (9599),
                       Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus
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Query
    1
         Sbjct
         GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
                                                     60
     61
         TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
                                                     120
Query
         Sbjct
                                                     120
                                                     180
Query
     121
         occeceTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
         180
     121
Sbjct
         GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC
                                                     240
    181
Query
         181
         ĠĂĊĠĂĊĊĠĠĠŦĊĊŦŦŦĊŦŦĠĠĂŦĂĂĂĊĊĊĠĊŦĊĂĂŦĠĊĊŦĠĠĂĠĂŦŦŦĠĠĠĊĠŦĠĊĊĊĊ
                                                     240
Sbjct
Query
     241
         GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
                                                     300
         Sbjct
     241
         GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
                                                     300
     301
         GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
                                                     360
Query
         360
     301
         GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
Sbjct
     361
         CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
                                                     420
Query
         420
Sbjct
     361
     421
         GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
                                                     480
Query
         480
Sbjct
     421
         GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
     481
         GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA
                                                     540
Query
         GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA
     481
                                                     540
Sbjct
Query
     541
         AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG
                                                     600
         AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG
                                                     600
Sbjct
     541
     601
         GCAATGAGGGTTGCGGGTGGCCGGGATGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT
                                                     660
Query
         601
         GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT
                                                     660
Sbjct
         GGGGCCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA
                                                     720
Query
     661
         Sbjct
     661
         GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA
                                                     720
```

Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query Sbjct	781 781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840 840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	tcccttgcgttcgcgagggtaacgcctcgaggtgttgggtggcggtgaccccacggtgg	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	ccaccaggacgcaaactcccacaacgcagcttcgacgtcatatcgatctgcttgtcg	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ĠĠġĠĊĠĊĊġĊĊĊĊĊĊĠĠĊĊĊĊĊĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	ttggtcaactgttaccttctctccaggcgccactggacgacgcaagactgcaattgtt	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŦĂŦĊŦĂŦĊĊĊĠĠĊĊĂŦĂŦĂĂĊĠĠĠŦĊĂŦĊĠĊĂŦĠĠĊĂŦĠĠĠĂŦĂŦĠĂŦĠĂĀĊŦĠĠŦ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501 1561	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560 1620
Query Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
_	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAAT	1680
Query Sbjct	1621	IGAATIGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801		1860
			_ 0 0 0

Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861		1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921		1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981		2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACCCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	ccggcctcatccacctccacagaacattgtggacgtgcagtacttgtacggggtagggt	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	caagcatcgcgtcttgggccattaagtgggagtacgtcgttctcctgttccttcttgcttg	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	ĊĂĠĂĊĠĊĠĊĠĊĠŤĊŤĠĊŤĊĊŤĠĊŤŤĠŤĠĠĂŤĠŤŤĂĊŤĊĂŤĂŤĊĊĊĂĂĠĊĠĠĂĠĠĊĠĠ	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŢŢŢĠĠĠĠĠĠĊĊŢĊĠŢĠĠŢĊĊĠĠĠĠĠĊĊĊĠĠĠĠĊĠĊĠĊĠĊĠĠŢĊŢŢĠŢĠŢ	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	ŤĊŦĂĊĠĊĊĊŤĊŤĂĊĠĠĠĂŤĠŤĠĠĊĊŤĊŤĊĊŤĠĊŤĠĊŤĠĊŤĠĠĊĠŤŤĠĊĊŤĊĂĠĊĠĠĠ	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	ĊĂŦĂĊĠĊĂĊŦĠĠĂĊĂĊĠĠĂĠĠŦĠĠĊĊĠĊĠŦĊĠŦĠŦĠĠĊĠĠĊĠŦŦĠŦŦĊŦŦĠŦĊĠĠĠŦŦĂĀ	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	tigicigici gactici gitcigici atattacaa gicigici atatca gictigi giciatigi gicitici gicigici giciatigi gicia	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccctCAACGTCC	2940
Sbjct	2881	agtattttctgaccagagtagaagcgcaactgcacgtgtgggttccccccctcaacgtcc	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	gggggggggggggtgtatgcgtatcttactcatgtgtgtagtacacccgaccctggtatttg	3000

Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	ttaaagtcccctacttcgtgcgcgttcaaggccttctccggatctgcgcgctagcgcga	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	ÁGÁTÁGCCGGÁGGTCÁTTÁCGTGCÁÁÁTGGCCÁTCÁTCÁÁGTTÁGGGGCGCTTÁCTGGCÁ	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661 3721	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT  CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3720
Query Sbict	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780 3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		3900
Query	3901	GTGGAGTGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		4140
ر	-		-

Query Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200 4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		4260
Query	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261		4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	ĊĊĂĊŢĠĊŢĂĊĊĊŢĊĊĠĠĠĊŢĊĊĠŢĊĂĊŢĠŢĠŢĊĊĊĂŢĊĊŢĂĂĊĂŢĊĠĀĠĠĀĠĠŢŢĠĊŢĊ	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct Query	4501 4561	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4560 4620
Sbjct	4561	I GGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681		4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	accctacctttaccattgagacaaccacgctccccaggatgctgtctccaggactcaac	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct Query	4861 4921	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT  GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4920 4980
Sbjct	4921		4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981		5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041		5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280

Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	catgcatgtcggccgacctggaggtcgtcacgagcacctgggtgctcgttcgt	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	rigictigictigicigic grantigic tigic aac agget geget get catag tigigica gegat cig	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	tcttgtccgggaagccggcaattatacctgacaggaggttctctaccaggagttcgatg	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	ÁĞTTCÁÁĞCÁĞÁÁĞGCCCTCĞGCCTCCTĞCÁĞÁCCĞCĞTCCCĞCCÁTĞCÁĞÁĞĞTTÁTCÁ	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGCCAGGGGCAATGGATGAACCGCTAATAGCCTTCGCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACACTGCCTGGGATTC	6360 6420
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420

Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	ĊŢĊĠĊŢĠĊĊĸĊŢĠŢĠĠĸĠĊŢĠĸĠĸŢĊĸĊŢĠĠĸĊĸŢĠŢĊĸĸĸĸĸĸĸĸ	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	ŤĊĠĠŤĊĊŤĂĠĠĂĊĊŤĠĊĂĠĠĂĂĊĂŤĠŤĠĠĂĠŤĠĠĠĂĊĠŤŤĊĊĊĊĂŤŤĂĂĊĠĊĊŤĂĊĂĊĊĀ	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCCGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCCTGGAGGGGAGCCTGGGGATCCCGGATCTCAGCGACGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560

Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	caggcgcactcgtcaccccgtgcgctgcggaagaacaaaaactgcccatcaacgcactga	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	ĠĊĂĂĊŦĊĠŦŦĠĊŦĂĊĠĊĊĂŦĊĂĊĂĂŦĊŦĠĠŦĠŦĂŦŦĊĊĂĊĊĂĊŦŦĊĂĊĠĊĀĠŦĠĊŦŦĠĊĊ	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	ÁAAGGCÁGAAGAAAGTCACATTTGACAGACTGCÁAGTTCTGGACAGCCATTACCÁGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGACGACGACGCCCTTGAATTGGTCCTGGAAG	8160 8220
Query Sbjct	8161 8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA  CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbict	8281		8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341		8400
Query	8401	CCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401		8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461		8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521		8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581		8640
Query	8641	CCG:::::cccccgggggaccc:::ACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
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Sbjct
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    61
                                                    120
Query
         Sbjct
    61
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Query	121 121	cccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180 180
Sbjct		CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	
Query Sbjct	181 181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301		360
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Sbjct	421		480
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Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
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Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
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Sbjct	601	GCAATGAGGGTTGCGGGTGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
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Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	cgtgcggcttcgccgacctcatggggtacataccgctcgtcggcgcccctcttggaggcg	780
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Sbjct	781	ĊŤĠĊĊĂĠĠĠĊĊĊŤĠĠĊĠĊĂŤĠĠĊĠŤĊĊĠĠĠŤŤĊŤĠĠĂĂĠĂĊĠĠĊĠŤĠĂĂĊŤĂŤĠĊĂĂĊĀĠ	840
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Sbjct	841	ĠĠĂĂĊĊŤŤĊĊŤĠĠŤŤĠĊŤĊŤŤŤĊŤĊŤĂŤĊŤŤĊĊŤŤĊŤĠĠĊĊĊŤĠĊŤĊŤĊŤŤĠĊĊŤĠĂĊŤĠ	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	rácccáctrcaácctaccaaátácácaátrcctcáááácttaccatátcaccaatáatr	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	ĠĊĊĊŦĂĂĊŦĊĠĂĠŦĂŦŦĠŦĠŦĂĊĠĂĠĠĊĠĠĊĊĠĂŦĠĊĊĂŦĊĊŦĠĊĂĊĂĊŦĊĊĠĠĠĠŦĠŦĠ	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	tcccttgcgttcgcgagggtaacgcctcgaggtgttgggtggcggtgaccccacggtgg	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260

Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	cccctacgcagcgttggtagctcagctgctccggatcccacaagccatcatggaca	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	actgggcgaaggtcctggtagtgctgctatttgccggcgtcgacgcggaaacccacg	1500
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Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	†GAATTĠCAATĠAAAĠĊĊŤŦAACAĊĊĠĠĊŦĠĠŤŦAĠĊĀĠĠĠĊŤĊŤŤĊŦAŤĊAACĀĊĀAĀŤ	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
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Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AĠĠĠĊŦĠĠĠĠŦĊĊŦĂŦĊĀĠŦŦĂŦĠĊĊĀĀĊĠĠĀĀĠĊĠĠĊĊŦĊĠĀĊĠĀĀĊĠĊĊĊŦĀĊŦĠĊŦ	1800
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Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
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Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
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Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400

Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
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Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
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Sbjct	2521	ĊĀĠĀĊĠĊĠĊĠĊĠĊĊŦĠĊŦĊĊŦĠĊŦŦĠŦĠĠĀŦĠĀŦĠŦŦĀĊŦĊĀŦĀŦĊĊĊĀĀĠĊĠĠĀĠĠĊĠĠ	2580
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Sbjct	3241	rggccgrggcrgrggaaccagrcgrcrrcrcccgaarggagaccaagcrcarcacgrgg	3300
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Sbjct	3301	gggcagataccgccgcgtgcggtgacatcatcaacggcttgcccgtctctgcccgtaggg	3360
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Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
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Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	ĊĠĀĠĠĀĊĊĀŤĊĠĊĀŤĊĀĊĊĀĀĠĠĠŤĊĊŤĠŤĊĀŤĊĊĀĠĀŤĠŤĀŤĀĊĊĀĀŤĠŤĠĠĀĊĊĀĀĠ	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
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Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
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Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
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Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140 4200
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct Ouerv	4141 4201		4200
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
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Sbjct	4321		4380
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Sbjct	4381		4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		4500
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Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561		4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680

Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	acttcgactctgtgatagactgcaacacgtgtgtcactcagacagtcgatttcagccttg	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACAGGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341 5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400 5400
Sbjct		TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	
Query Sbict	5401 5401		5460 5460
_	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521		5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		5640
Query	5641	ATTICATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTICATCAGTGGGATACCATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TIGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TIGCTICATIGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTA	5820
	0,01		5020

Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	ĊŢĠĊĊŢŢĠŢĠĠŢĠĊŢĠĠĊĊŢĠĠĊĠĊĊĠĊĊĸŢĊĠĠĊĸĠĊĠŢŢĠĠĸĊŢĠĠĠĠĸĸĠĠ	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	ŤĊĊŤĊĠŤĠĠĂĊĂŤŤĊŤŤĠĊĂĠĠĠŤĂŤĠĠĊĠĊĠĠĠĠĊĠĠĠ	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGCCAGGGGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420 6420
Sbjct Query	6361 6421	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421		6480
Ouerv	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481		6540
Query	6541	CGGGCCCTGTACTCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541		6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601		6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661		6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721		6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781		6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841		6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901		6960

Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	ccgctccatctctcaaggcaacttgcaccgccaaccatgactccctgacgccgagctca	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	agaacaaagtggtgattctggactccttcgatccgcttgtggcagaggaggatgagcgg	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AĠĠŦĊŦĊĊĠŦAĊĊŦĠĊAĠAAAŦŦĊŦĠĊĠĠAAĠŦĊŦĊĠĠAĠAŦŦĊĠĊĊĊĠĠĠĊĊĊŦĠĊĊĊĠ	7200
Query	7201	TCTGGGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	tctgggcgcggccggactacaaccccccgctagtagagacgtggaaaaaagcctgactacg	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	aaccacci gi gi ccat gcccccc caccacci ccac gi ccci cci cci cci cci cci cci cci cc	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	ctcggaaaaagcgtacggtgctctcaccgaatcaaccctatctactgccttggccgagc	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	catcctctgagcccgcccttctggctgccccccgactccgacgttgagtcctattctt	7500
Query	7501	CCATG ccccctGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA	7560
Sbjct	7501	ccatgcccccctggaggggagcctggggatccggatctcagcgacgggtcatggtcga	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	ĊĠĠŦĊĀĠŦĠĠĠĠĊĊĠĀĊĀĊĠĠĀĀĠĀŦĠŦĊĠŦĠĊŦĠĊŦĊĀĀŦĠŦĊŦŦĀŦŦĊĊŦĠĠĀ	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	ĊĀĠĠĊĠĊĀĊŦĊĠŦĊĀĊĊĊĠŦĠĊĠĊŦĠĊĠĠĀĀĠĀĀĊĀĀĀĀĀĊŦĠĊĊĊĀŦĊĀĀĊĠĊĀĊŦĠĀ	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	ĠĊĂĂĊŦĊĠŦŦĠĊŦĂĊĠĊĊĂŦĊĂĊĂĂŦĊŦĠĠŦĠŦĂŦŦĊĊĂĊĊĂĊŦŦĊĂĊĠĊĀĠŦĠĊŦŦĠĊĊ	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	ÁÁÁGGCÁGÁÁÁGÁÁÁGTCÁCÁTTTGÁCÁGÁCTGCÁÁGTTCTGGÁCÁGCCÁTTÁCCÁGGÁCG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	ŤĠĊŤĊŔŔĠĠŔĠĠŤĊŔŔŔĠĊĠĠĊĠŤĊŔŔŔĠŢĠŔŔĠĠĊŤŔŔĊŤŤĠĊŤŔŤĊĊĠŤŔĠŔĠĠ	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	acgtccgttgccatgccagaaaggccgtagcccacatcaactccgtgtggaaagaccttc	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	rggaagacagrgraacaccaaragacacraccarcarggccaagaacgaggrrrrcrgcg	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCCGACCTGGGCG	8100

Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query Sbict	8221 8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280 8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbict	8281		8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341		8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401		8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	ctagctgtggtaacaccctcacttgctacatcaaggcccgggcagcctgtcgagccgcag	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGAGGCTATAAACATCATCA	8640 8700
Query Sbjct	8641 8641	CCGcccccccggggaccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701		8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	accctacaaccccctcgcgagagccgcgtgggagacagcaagacacactccagtcaatt	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881 8941	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA  TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001		9060
Query	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061		9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121		9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240

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    9301
                                                  9360
Query
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                                                  9360
Sbjct
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        9361
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                                                 9599
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Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus
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Sbjct
Query
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        Sbjct
    61
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    121
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Sbjct
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        241
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Sbjct
    301
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                                                  360
Query
        GTĠĊŢŢĠĊĠĂĠŢĠĊĊĊĠĠĠĂĠĠŢĊŢĊĠŢĂĠĂĊĊŢĠĊĂĊĊĂŢĠĂĠĊĂĊĠĂĂŢĊŢĀĂĂĊ
Sbjct
    301
                                                  360
    361
        CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
                                                  420
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Sbjct
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Query
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                                                  540
Sbjct
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Sbjct
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    601
                                                  660
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Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	ĊŤĠĊĊĂĠĠĠĊĊĊŤĠĠĊĠĊĂŤĠĠĊĠŤĊĊĠĠĠŤŤĊŤĠĠĂĂĠĂĊĠĠĊĠŤĠĂĂĊŤĂŤĠĊĂĂĊĀĠ	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	ggaaccttcctggttgctctttctctatcttccttctgccctgctcttcttgcctgactg	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	ŤĠĊĊĠĊŤŤĊĂĠĊĊŤĂĊĊĂĂĠŤĠĊĠĊĂĂŤŤĊĊŤĊĠĠĠĠĊŤŤŤĂĊĊĂŤĠŤĊĂĊĊĂĂŤĠĂŤŤ	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	ĠĊĊĊŦĂĂĊŦĊĠĂĠŦĂŦŦĠŦĠŦĂĊĠĂĠĠĊĠĠĊĊĠĂŦĠĊĊĂŦĊĊŦĠĊĂĊĂĊŦĊĊĠĠĠĠŦĠŦĠ	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	tcccttgcgttcgcgagggtaacgcctcgaggtgttgggtggcggtgaccccacggtgg	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	ccaccaggacgcaaactcccacaacgcagcttcgacgtcatatcgatctgcttgtcg	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ĠĠĀĠĊĠĊĊĀĊĊĊĊĊĊĠĠĊĊĊĊĊĊĬĊĊŢĠĊĠĠĠĠĠĠĠĠĠĠĠ	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	triggtcaactigtriacctrictictccaigicigcactigiacgacgacgaagactigcaartigtr	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŦĂŦĊŦĂŦĊĊĊĠĠĊĊĂŦĂŦĂĂĊĠĠĠŦĊĂŦĊĠĊĂŦĠĠĊĂŦĠĠĠĂŦĂŦĠĂŦĠĂĀĊŦĠĠŦ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	ŤĠĂŤĊĠĊŤĠĠŤĠĊŤĊĂĊŤĠĠĠĠĀĠŤĊĊŤĠĠĊĠĠĠĊĂŤĂĠĊĠŤĂŤŤŤĊŤĊĊĂŤĠĠŤĠĠĠĠĀ	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	ŤĊĂĊĊĠĠĠĠĠĂĂĂŤĠĊĊĠĠĊĊĠĊĂĊĠĠĊŤĠĠĠĊŤŤĠŤŤĠĠŤĊŤĊĊŤŤĂĊĂĊĊĂĠĠĊĠ	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	tgaattgcaatgaaagccttaacaccggctggttagcagggctcttctatcaacacaaat	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	tcaactcttcaggctgtcctgagaggttggccagctgccgacgccttaccgattttgccc	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800

Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTGCGGGGGTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC	2940

Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ĠĠĠĠĠĠĠĠĠĊĠĊĠatĠĊĊĠŧĊatĊŧŧaĊţĊatĠţĠţaĠţaĊaĊĊĠaĊĊĊţĠţtaţţţĠ	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	acatcaccaaactactcctggccatcttcggacccctttggattcttcaagccagtttgc	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCGAAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	agatagccggaggtcattacgtgcaaatggccatcatcaagttaggggcgcttactggca	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	cctatgtgtataaccatctcacccttttcgagactgggcgcacaacggcctgcgagatc	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TĠĠĊĊĠŦĠĠĊŦĠŦĠĠĂĂĊĊĂĠŦĊĠŦĊŦŤĊŦĊĊĊĠĂĂŦĠĠĂĠĂĊĊĂĂĠĊŦĊĂŤĊĂĊĠŦĠĠĠ	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	ggcagataccgccgcgtgcgtgacatcatcaacggcttgcccgtctctgcccgtaggg	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	ĠĊĊĀĠĠĀĠĀŦĀĊŦĠĊŦŦĠĠĠĊĊĀĠĊĠĠĀĊĠĠĀĀŦĠĠŦĊŦĊĊĀĀĠĠĠŦĠĠĀĠĠŦŦĠĊŦĠĠ	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	ĊĠĊĊĊĂŢĊĂĊĠĠĊĠŢĂĊĠĊĊĀĠĊĀĠĀĊĠĀĠĀĠĠĊĊŢĊĊŢĀĠĠĠŢĠŢĀŢĀĀŢĊĀĊĊĀĠĊĊ	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	aaaccttcctggcaacgtgcatcaatggggtatgctggactgtctaccacggggccggaa	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	ĊĠĀĠĠĀĊĊĀŦĊĠĊĀŦĊĀĊĊĀĀĠĠĠŦĊĊŦĠŦĊĀŦĊĊĀĠĀŦĠŦĀĊĊĀĀŦĠŦĠĠĀĊĊĀĀĠ	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	ĊĊŢĊĠĠĂĊĊŢŢŢĂĊĊŢĠĠŢĊĀĊĠĀĠĠĊĀĊĠĊĊĠĀŢĠŢĊĂŢŢĊĊĊĠŢĠĊĠĊĊĠĠĊĠĀĠĠŢĠ	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	atagcagggtagcctgctttcgccccggcccatttcctacttgaaaggctcctcgggg	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	gtccgctgttgtgccccgcggacacgccgtggcctattcagggccgcgtgtgcaccc	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	gradadtadectadadectadadectadadectadadectadadectadadat	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	ccccggtgttcacggacaactcctctccaccagcagtgccccagagcttccaggtggccc	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080

Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	ctggcagccccatcacgtactccacctacggcaagttccttgccgacggcgggtgctcag	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	ccactgctacccctccgggctccgtcactgtgtcccatcctaacatcgaggaggttgctc	4440
Query	4441	TGTCCACCACCGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	ĊĠĂĊĊĀĠĊĠĠĊĠĀŦĠŦŦĠŦĊĠŦĠŦĠŦĊĠĀĊĠĀŦĠĊŦĊŦĊĀŦĠĀĊŦĠĠĊŦŦŦĀĊĊĠĠĊĠ	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGÁCTCTGTGÁTÁGÁCTGCÁÁCACGTGTGTCÁCTCÁGACÁGTCGÁTTTCÁGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	atatagatgcccactttttatcccagacaaagcagagtggggagaactttccttacctgg	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220

Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	gactgggcgctgttcagaatgaagtcaccctgacgcacccaatcaccaaatacatcatga	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	ĊĂŦĠĊĂŦĠŦĊĠĠĊĊĠĂĊĊŦĠĠĂĠĠŦĊĠŦĊĂĊĠĀĠĊĂĊĊŦĠĠĠŦĠĊŦĊĠŦŦĠĠĊĠĠĊĠŦĊĊ	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct Query	5761 5821	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCAACC	5820 5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Ouerv	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881		5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941		6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001		6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061		6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121		6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181		6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241		6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301		6360

Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query Sbjct	6541 6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600 6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601		6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661		6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ÁCGTÁGCCGTGTTGÁCGTCCÁTGCTCÁCTGÁTCCCTCCCÁTÁTÁÁCÁGCÁGÁGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961 6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020 7020
Sbjct Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7020
Sbjct	7021		7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081		7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141		7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	tctgggcgcggccggactacaacccccgctagtagagacgtggaaaaagcctgactacg	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct Query	7381 7441	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA CATCCTCTGAGCCCGCCCCTTCTGGCTGcccacaGACTCCGACGTTGAGTCCTATTCTT	7440 7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGGCGGGGGGGGGG	7500
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Query	7501	CCATGaaaaaaaTGGAGGGGGGGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501		7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561		7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621		7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681		7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741		7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
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Query	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
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Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	rgcgcgrgrgcgagaagarggcccrgracgacgrggrragcaagcrcccccrggccgrga	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
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Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	ĊĠŢĠĠĸĸĠŢĊĊĸĸĠĸĸĠĸĊĊĊĠĸŢĠĠĠĠŢŢĊŢĊĠŢĸŢĠĸŢĊĊĠĊŢĠŢŢŢĠĸĊŢĊĊĸ	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	ĊĂĠŤĊĂĊŤĠĂĠĂĠĊĠĂĊĂŤĊĊĠŤĂĊĠĠĂĠĠĂĠĠĊĂĂŤŤŤĂĊĊĂĂŤĠŤŤĠŤĠĂĊĊŤĠĠĂĊĊ	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	ĊĊAATTĊAAGĠĠĠĠAAAAĊŦĠĊĠĠĊŦAĊĊĠĊAĠĠŦĠĊĊĠĊĠĊĠAĠĊĠĠĊĠŦAĊŦĠAĊAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	ĊŦĀĠĊŦĠŦĠĠŦĀĀĊĀĊĊĊŦĊĀĊŦŦĠĊŦĀĊĀŦĊĀĀĠĠĊĊĠĠĠĊĀĠĊĊŦĠŦĊĠĀĠĊĊĠĊĀĠ	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	ĠĠĊŦĊĊĀĠĠĀĊŦĠĊĀĊĊĀŦĠĊŦĊĠŦĠŦĠĠĠĠĀĊĠĀĊŦŦĀĠŦĊĠŦŦĀŦĊŦĠŦĠĀĀĀĠŦĠ	8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGCGGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640

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Sbjct
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Sbjct
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Sbjct
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                                                  9120
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                                                  9120
Sbjct
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    9121
                                                  9180
Query
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    9121
                                                  9180
Sbjct
Query
    9181
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        Sbjct
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    9241
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    9241
                                                  9300
Sbjct
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                                                  9360
Query
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        Sbjct
    9301
                                                  9360
Query
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Sbjct
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Query
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    9481
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                                                  9599
Query
        Sbjct
                                                  9599
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Length=9599
Score = 1.773e+04 bits (9599), Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus
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Query
        Sbjct
        GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
```

Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAG	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	cccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	ĊŢĊŖŖĠŖĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	gcggtcagatcgttggtggagtttacttgttgccgcgcagggccctagattgggtgtgc	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	gcgcgacgaggaagacttccgagcggtcgcaacctcgaggtagacgtcagcctatcccca	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	gcaatgagggttgcgggtgggcgggatggctctgtctccccgtggctctcggcctagct	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	ggggcccacagaccccggcgtaggtcgcgcaatttgggtaaggtcatcgataccctta	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	cĠtĠċĠĠċttċĠċċĠàċċtċatĠĠĠĠtàċatàċċĠċtċĠtċĠĠċċċċtċttĠĠaĠĠċĠ	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	ctgccagggccctggcgcatggcgtccgggttctggaagacggcgtgaactatgcaacag	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	ggaacctrectgettectetatettectetetetetetetetetetetetet	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200

Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŦĂŦĊŦĂŤĊĊĊĠĠĊĊĂŦĂŤĂĂĊĠĠĠŤĊĂŤĊĠĊĂŤĠĠĊĂŤĠ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801 1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860 1860
Sbjct Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCGTGGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbict	1921		1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981		2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		2340

Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	rigit ce a ce	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	ccgcctcatccacctccacagaacattgtggacgtgcagtacttgtacggggtagggt	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	ĊAAĠĊATĊĠĊĠŦĊĊŦĠĠĠĊĊATŦAAĠŦĠĠĠAĠŦAĊĠŦĊĠŦŤĊŤĊĊŦĠĊŦŦĊĊŦĠĊŦŦĠ	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	ĊĀĠĀĊĠĊĠĊĠĊĠŤĊŦĠĊŦĊĊŤĠĊŦŦĠŤĠĠĀŦĠĀŤĠŤŤĀĊŤĊĀŤĀŤĊĊĊĀĀĠĊĠĠĀĠĠĊĠĠ	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŢŢŢĠĠĠĠĠĠĊŢĊĠŢĠĠŢĊŢĊĠĠĊĠĠĠĠĊĠĊĠĠĠŢĊŢŢĠŢĠŢ	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	ccttcctcgtgttcttctgctttgcgtggtatctgaagggtaggtgggtg	2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	tctacgcctctacgggatgtggcctctcctcctgctcctgctgctgccttacgcgg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	catacgcactggacacggaggtggccgcgtcgtgtggcggcgttgttcttgtcgggttaa	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	rggcgctgactctgtcgccatattacaagcgctatatcagctggtgcatgtggttgc	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccctCAACGTCC	2940
Sbjct	2881	agtattitctgaccagagtagaagcgcaactgcacgtgtgggttcccccctcaacgtcc	2940
Query	2941	ggggggggCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ĠĠĠĠĠĠĠĠĠĠĊĠĊĠĸĠĊĊĠŦĊĸŦĊŦŦĸĊŦĊĸŦĠŦĠŦĠŦĸĠŦĸĊĸĊĊĠĸĊĊĊŦĠĠŦĸŦŦŦĠ	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	ttaaagtcccctacttcgtgcgcgttcaaggccttctccggatctgcgcgctagcgcga	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	ÁGÁTÁGCCGGÁGGTCÁTTÁCGTGCÁÁÁTGGCCÁTCÁTCÁÁGTTÁGGGGCGCTTÁCTGGCÁ	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TĠĠĊĊĠŦĠĠĊŦĠŦĠĠAAĊĊĀĠŦĊĠŦĊŦĊĊĊĠĀAŦĠĠĀĠĀĊĊĀĀĠĊŦĊĀŤĊĀĊĠŦĠĠĠ	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	ġĠĠĊĀĠĀŦĀĊĊĠĊĠĊĠŦĠĊĠĠŦĠĀĊĀŦĊĀŦĊĀĀĊĠĠĊŦŦĠĊĊĊĠŦĊŦĊŦĠĊĊĊĠŦĀĠĠĠ	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	gccaggagatactgcttgggccagccggaatggtctccaaggggtggaggttgctgg	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480

Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	ŤĠĂĊŤĠĠĊĊĠĠĠĂĊĂĂĂĂĂĊĊĂĂĠŤĠĠĂĠĠĠŤĠĂĠĠŤĊĊĂĠĂŤĊĠŤĠŤĊĂĂĊŤĠĊŤĂĊĊĊ	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query Sbict	3601 3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660 3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbict	3661		3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	gtccgctgttgtgccccgcggacacgccgtgggcctattcagggccgcgcgtgtgcaccc	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query Sbjct	4021 4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080 4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
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Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query Sbjct	4261 4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320 4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321		4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
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Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
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Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	cgaccagcggcgargtrgtcgtcgtgtcgaccgargctctcatgactggctttaccggcg	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
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Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
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Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
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Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
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Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
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Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
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Sbjct	5461		5520
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Sbjct	5701		5760

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Query Sbjct	5821 5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCATCGGCAGCGTTGGACTGGGGAAGG	5880 5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881		5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
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Sbjct	6001		6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
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Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
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Sbjct	6301		6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	cctttgtgtcctgccagcgcggtataggggggtctggcgaggagacggcattatgcaca	6420
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Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	tcggtcctaggacctgcaggaacatgtggagtgggacgttccccattaacgcctacacca	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	cgggccctgtactcccttcctgcgccgaactataagttcgcgctgtggagggtgtctg	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	cagaggaatacgtggagataaggcgggtgggggacttccactacgtatcgggtatgacta	6660
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Sbjct	6661	ĊŢĠŖĊŖŖŢĊŢŢŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖ	6720
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Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900

Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	ĠĠĀĠĀĀĠĠŦŦĠĠĊĠĀĠĀĠĠŦĊĀĊĊĊĊŦŦĊŦĀŦĠĠĊĊĀĠĊŦĊĊŦĊĠĠĊŦĀĠĊĊĀĠĊŦĠŦ	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
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Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCCGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
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Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
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Ouerv	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCTCAATGTCTTATTCCTGGA	7620
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Sbjct	8221	ĊĠŦĠĠAĀĠŦĊĊĀĀĠĀĀĠĀĊĊĊĠĀŦĠĠĠĠŦŦĊŦĊĠŦĀŦĠĀŦĀĊĊĊĠĊŦĠŦŦŦŦĠĀĊŦĊĊĀ	8280
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Sbjct	8821	ĊĊŢĠĠĊŢĠĠĊĸĸĊĸŢĸĸŢĊĸŢĠŢŢĠĊĊĊĊĸĊĸĊŢĠŢĠĠĠĊĠĸĠĠĸŢĠĸŢĸĊŢĠĸŢĠĸ	8880
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Sbjct	661	GGGGCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
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Sbjct	841		900
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Sbjct	901		960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	ttggtcaactgttaccttctctccaggcgccactggacgacgcaagactgcaattgtt	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŦĂŦĊŦĂŦĊĊĊĠĠĊĊĂŦĂŦĂĂĊĠĠĠŦĊĂŦĊĠĊĂŦĠĠĊĂŦĠĠĠĂŦĂŦĠĂŦĠĂĀĊŦĠĠŦ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	ŤĠĂŤĊĠĊŤĠĠŤĠĊŤĊĂĊŤĠĠĠĠĀĠŤĊĊŤĠĠĊĠĠĠĊĂŤĂĠĊĠŤĂŤŤŤĊŤĊĊĂŤĠĠŤĠĠĠĠĀ	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	tcaccggggaaatgccgccccaccacggctgggcttgttggtctccttacaccaggcg	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740

Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ĠĊŔŔŢŢĠĠŢŢĊĠĠŢŢĠŢŔĊĊŢĠĠŔŢĠŔŔĊŢĊŔŔĊŢĠĠŔŢŢĊŔĊĊŔŔŔĠŢĠŢĠĊĠĠŔĠĊĠĊ	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊĀĀĀĊĀŤĊĊĠĠĀĀĠĊĊĀĊĀŤĀĊŤĊŤĠĠŦĠĊĠĠĊŤĊĊĠĠŤĊĊĊŤĠĠĀŤŤĀĊĀĊĊĊĀĠĠŤ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	ĠĊATĠĠŢĊĠAĊŢĀĊĊĊĠŢĀŢĀĠĠĊŢŢŢĠĠĊĀĊŢĀŢĊĊŢŢĠŢĀĊĊĀŢĊĀŢŢĀĊĀĊĊĀŢĀŢ	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	tcaaagtcaggatgtacgtggaggggtcgagcacaggctggaagcggcctgcaactgga	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	cgcggggcgaacgctgtgatctggaagacagggacaggtccgagctcagcccgttgctgc	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	tgtccaccacacagtggcaggtccttccgtgttctttcacgaccctgccagccttgtcca	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	ccggcctcatccacctccacagaacattgtggacgtgcagtacttgtacggggtagggt	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	ĊAAĠĊAŤĊĠĊĠŤĊĊŤĠĠĠĊĊAŤŤAAĠŤĠĠĠĀĠŤAĊĠŤĊĠŤŤĊŤĠĊŤŤĊĊŤŤĊŤĠĊŤŤĠ	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	cagacgcgcgcgcctcctgcttgtggatgatgttactcatatcccaagcggaggcgg	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŢŢŢĠĠĠĠĠĠĊŢĊĠŢĠĠŢĊŢĊĠĠĠĠĠĊĠĊĠĠĠĠĊĠĊĠĠŢĊŢŢĠŢĠŢ	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCCTGC	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880

Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ĠĠĠĠĠĠĠĠĠĠĊĠĊĠĀŦĠĊĊĠŦĊĀŦĊŦŦĀĊŦĊĀŦĠŦĠŦĠŦĀĠŦĀĊĀĊĊĊĠĀĊĊĊŦĠĠŦĀŦŦŦĠ	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	acatcaccaaactactcctggccatcttcggacccctttggattcttcaagccagtttgc	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	ttaaagtcccctacttcgtgcgcgttcaaggccttctccggatctgcgcgctagcgcga	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	cctatgtgtataaccatctcacccctcttcgagactgggcgcacaacggcctgcgagatc	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	rggccgrggcrgradcagtcgrcrtctcccgaarggagaccaagctcarcacgrgg	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	gggcagataccgccgcgtgcggtgacatcatcaacggcttgcccgtctctgcccgtaggg	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	gccaggagatactgcttgggccagccgacggaatggtctccaaggggtggaggttgctgg	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	cgcccatcacggcgtacgcccagcagacgagaggcctcctagggtgtataatcaccagcc	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	rgactggccgggacaaaaaccaagtggagggtgaggtccagatcgtgtcaactgctaccc	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	ĊĠĀĠĠĀĊĊĀŦĊĠĊĀŦĊĀĊĊĀĀĠĠĠŦĊĊŦĠŦĊĀŦĊĊĀĠĀŦĠŦĀĊĀĀŦĠŦĠĠĀĊĊĀĀĠ	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	accttgtgggctggcccgctcctcaaggttcccgctcattgacaccctgtacctgcgct	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	cctcggacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccgaggtg	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	atagcagggtagcctgctttcgccccggcccatttcctacttgaaaggctcctcgggg	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	grccgcrgrrgrgcccccgcggacacgccgrgggccrarrcagggccgcgcgrgrgcaccc	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	gragagragactaatagagactaatcccraragagaacctaaggacaaccargagat	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020

Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	acctgcatgctcccaccggcagcggtaagagcaccaaggtcccggctgcgtacgcagccc	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	aggctacaaggtgttggtgctcaacccctctgttgctgcaacgctgggctttggtgctt	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTCTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160

Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	rgrggaagrgrrrgarccgccrraaacccacccrccargggccaacaccccrgcraraca	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	ĠĂĊŢĠĠĠĊĠĊŢĠŢŢĊĀĠĀĀŢĠĀĠŢĊĀĊĊĊŢĠĀĊĠĊĀĊĊĊĀĀŢĊĀĊĀĀĀŢĀĊĀŢĊĀŢĠĀ	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CÁTGCÁTGTCGGCCGÁCCTGGÁGGTCGTCÁCGÁGCÁCCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	ŤŤĠĊŤŤĊĂŤŤĠĂŤĠĠĊŤŤŤŤĂĊĂĠĊŤĠĊĊĠŤĊĂĊĊĂĠĊĊĊĂĊŤĂĂĊĊĂĊŤĠĠĊĊĂĂĂĊĊĊ	5760
Query	5761	TCCTCTTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	ŤĊĊŤĊĠŤĠĠĂĊĂŤŤĊŤŤĠĊĂĠĠĠŤĂŤĠĠĊĠĊĠĠĠĠĊĠŤĠĠĊĠĠĠĂĠĊŤĊŤŤĠŤĀĠĊĂŤŤĊĂ	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	ĠĊĊĊĠĠĠĊĠĂĠĠĠĠĊĂĠŦĠĊĀĂŦĠĠĂŦĠĂĂĊĊĠĠĊŦĂĂŦĂĠĊĊŦĊĠĊĠĠĠĠĠĀ	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	accatigititécéécaégéaétáégtigééggagagégatigéagéégééégégétéaétigééa	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300

Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	ĊĊŦŦŦĠŦĠŦĊĊŦĠĊĊĂĠĊĠĊĠĠĠŦĂŦĂĠĠĠĠĠĠŦĊŦĠĠĊĠĂĠĠĠĠĠĠĊĂŦŦĂŦĠĊĀĊĀ	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021 7081	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080 7140
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC  AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381		7440
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Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATG accept TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA	7560
Sbjct	7501	ccatgcccccctggaggggagcctggggatccggatctcagcgacgggtcatggtcga	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	ĊĠĠŦĊaĠŦaĠŦĠĠĠĠĊĊĠaĊaĊĠĠaaĠaŦĠŦĊĠŦĠĊŦĠĊŦĊaaŦĠŦĊŦŦaŦŦĊĊŦĠĠa	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	caggcgcactcgtcaccccgtgcgctgcggaagaacaaaaactgcccatcaacgcactga	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	gcaactcgttgctacgccatcacaatctggtgtattccaccacttcacgcagtgcttgcc	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	ttcagcctgagaagggggtcgtaagccagctcgtctcatcgtgttccccgacctgggcg	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	tgggaagctcctacggattccaatactcaccaggacagcgggttgaattcctcgtgcaag	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	cgtggaagtccaagaagaccccgatggggttctcgtatgatacccgctgttttgactcca	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	cccaagcccgcgtggccatcaagtccctcactgagaggctttatgttgggggccctctta	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580

Query	8581 8581	CGGGGGTCCAGGAGGCCGGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct		CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT CCGcccccccggggaccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8640 8700
Query	8641 8641	CCGCCCCCCCGGGGACCCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGGTCTACTACCTTACCCGTG	8760
Query Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761		8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821		8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881		8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941		9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001		9060
Query	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061		9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	tgtccggttggttcacggctacagcggggagacatttatcacagcgtgtctcatg	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	cccggccccgctggttctggttttgcctactcctgctcgctgcaggggtaggcatctacc	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGttt	9420
Sbjct	9361	tcctcccaaccgatgaaggttggggtaaacactccggcctcttaagccatttcctgttt	9420
Query	9421	tttitttttttttttttttttttttttttttttttttt	9480
Sbjct	9421	rititititititititititititititititititit	9480
Query	9481	bbtotttttcccttcttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA	9540
Sbjct	9481	tttctttttcccttctttaatggtggctccatcttagccctagtcacggctagctgtgaa	9540
Query	9541	AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT	9599
Sbjct	9541	AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT	9599

>dbj|DJ068451.1| NOVEL SEQUENCES ENCODING HEPATITIS C VIRUS GLYCOPROTEINS Length=9599

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Score = 1.773e+04 bits (9599), Expect = 0.0 Identities = 9599/9599 (100%), Gaps = 0/9599 (0%) Strand=Plus/Plus
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Query	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	ĠĊĊĂĠĊĊĊĊŤĠĂŤĠĠĠĠĠĠĠĂĊĂĊŤĊĊĂĊĊĂŤĠĂĂŤĊĂĊŤĊĊĊŤĠŤĠĂĠĠĂĂĊŤĂĊŤĠ	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	cccccccccccccccccccccccccccccccccccccc	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query Sbjct	601 601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660 660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661		720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721		780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781		840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841		900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021		1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081		1140

Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ġĠAĠĊĠĊĊAĊĊĊĊĊĊĠĠĊĊĊĊĊĊĊĊĠĠĠĠĠĠĠĠĠĠĠĠĠĠ	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	ŤŤĠĠŤĊĂĂĊŤĠŤŤŤĂĊĊŤŤĊŤĊŤĊĊĊĀĠĠĊĠĊĊĂĊŤĠĠĂĊĠĊĂĂĠĂĊŤĠĊĂĂŤŤĠŤŤ	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTTTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681 1741	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTACCGATTTTGCCC	1740 1800
Query Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801		1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861		1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921		1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981		2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		2280

Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	ĊĠĊĠĠĠĠĊĠĂĂĊĠĊŦĠŦĠĂŤĊŦĠĠĂĂĠĂĊĂĠĠĠĂĊĂĠĠŤĊĊĠĂĠĊŤĊĂĠĊĊĊĠŦŤĠĊŤĠĊ	2340
Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	tigt con control of the control of t	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	ccggcctcatccacctccacagaacattgtggacgtgcagtacttgtacggggtagggt	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	caagcatcgcgtcctgggccattaagtgggagtacgtcgttctcctgttccttcttg	2520
Query	2521	CAGACGCGCGCTCTGCTCGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCTTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTGCCCCCCCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ggggggggggcgcgatgccgtcatcttactcatgtgtgtagtacacccgaccctggtatttg	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	ttaaagtcccctacttcgtgcgcgttcaaggccttctccggatctgcgcgctagcgcgga	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420

Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	cgcccatcacggcgtacgcccagcagacgagaggcctcctagggtgtataatcaccagcc	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021 4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080 4080
Sbjct Ouerv	4021	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbict	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261		4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321		4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381		4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		4560

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Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	ĊĠĂĊĊĂĠĊĠĠĊĠĂŦĠŦŦĠŦĊĠŦĠŦĠŦĊĠĂĊĊĠĂŦĠĊŦĊŦĊĂŦĠĂĊŦĠĠĊŦŦŦĂĊĊĠĠĊĠ	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTTGTGGCACCGGGGGAGC	4860 4860
Sbjct Query	4801 4861	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861		4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921		4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981		5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041		5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
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Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341 5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400 5400
Sbjct Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401		5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461		5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521		5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700

Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
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Query	5761	TCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	ŤĊĊŤĊŤŤĊĂĂĊĂŤĂŤŤĠĠĠĠĠĠŤĠĠĠŤĠĠĊŤĠĊĊĊĂĠĊŤĊĠĊĊĠĊĊĊĊĠĠŤĠĊĊĠĊŤĀ	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
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Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
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Query	6421 6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6481	CTCGCTGCCACCTGCACCACCACCACCACCACCACCACCACCACCACCACCAC	6480 6540
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Query Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA  CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661		6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781		6840
ر			

Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	ĊŤĊĠĠŔŔĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	ŤŤĠĊĊĂĊĊĂĂĂĂĠŤŤŤŤĠĠĊĂĠĊŤĊĊŤĊĂĂĊŤŤĊĊĠĠĊĂŤŤĂĊĠĠĠĊĠĂĊĂĂŤĂĊĠĂĊĂĀ	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGGCGGGGGACTCCGACGTTGAGTCCTATTCTT	7500
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Query	7501	CCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA	7560
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Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	ĊĠĠŤĊĂĠŤĀĠŤĠĠĠĠĊĊĠĂĊĂĊĠĠĂĂĠĂŤĠŤĊĠŤĠŤĠĊŤĠĊŤĊĂĂŤĠŤĊŤŤĂŤŤĊĊŤĠĠĀ	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
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Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980

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Query Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100 8100
_			
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Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
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Sbjct	8341	cccaagcccgcgtggccatcaagtccctcactgagaggctttatgttgggggccctctta	8400
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Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
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Sbjct	8881		8940
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Sbjct	8941		9000
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Sbjct
Query
     421
         GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
                                                     480
         GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
     421
                                                     480
Sbjct
         GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA
     481
                                                     540
Query
         Sbjct
     481
         GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA
                                                     540
```

Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	aggcacgicggcccgagggcaggaccigggcicagcccgggtacccittggcccctctatg	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	ĠĊĂĂŦĠĂĠĠĠŦŦĠĊĠĠĠŦĠĠĠĊĠĠĠĂŦĠĠĊŦĊĊŦĠŦĊŦĊĊĊĊĠŦĠĠĊŦĊŦĊĠĠĊĊŦĂĠĊŦ	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	ĊĊĂĊĊĂĠĠĠĂĊĠĠĊĂĂĂĊŤĊĊĊĠĂĊĂĊĠĊĂĠĊŤŤĊĠĂĊĠŤĊĂŤĂŤĊĠĂŤĊŤĠĊŤŤĠŤĊĠ	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŤĂŤĊŤĂŤĊĊĊĠĠĊĊĂŤĂŤĂĂĊĠĠĠŤĊĂŤĊĠĊĂŤĠĠĊĂŤĠĠĠĂŤĂŤĠĂŤĠĂĂĊŤĠĠŤ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	tcaccggggaaatgccggccgcaccacggctgggcttgttgttgttccttacaccaggcg	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680

Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	tcaactcttcaggctgtcctgagaggttggccagctgccgacgccttaccgattttgccc	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	ÁGGGCTGGGGTCCTÁTCÁGTTÁTGCCÁÁCGGÁÁGCGGCCTCGÁCGÁACGCCCCTÁCTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct Querv	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		2400
Query	2401	CCGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbict	2401		2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTG	2520
Sbjct	2461		2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641		2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701		2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761		2820

Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccctCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCC	2940
Query	2941	ggggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	ttaaagtcccctacttcgtgcgcgttcaaggccttctccggatctgcgcgctagcgcga	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	agatagccggaggtcattacgtgcaaatggccatcatcaagttaggggcgcttactggca	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	cctatgtgtataaccatctcacccctcttcgagactgggcgcacaacggcctgcgagatc	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	rggccgrggcrgrggaaccagrcgrcrrcrcccgaarggagaccaagcrcarcacgrgg	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	gggcagataccgccgcgtgcggtgacatcatcaacggcttgcccgtctctgcccgtaggg	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	gccaggagatactgcttgggccagccgacggaatggtctccaaggggtggaggttgctgg	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	cgcccatcacggcgtacgccagcagacgagaggcctcctagggtgtataatcaccagcc	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGTTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	rgactggccgggacaaaaaccaagtggagggtgaggtccagatcgtgtcaactgctaccc	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	ĊĠĀĠĠĀĊĊĀŢĊĠĊĀŢĊĀĊĊĀĀĠĠĠŢĊĊŢĠŢĊĀŢĊĊĀĠĀŢĠŢĀŢĀĊĊĀĀŢĠŢĠĠĀĊĊĀĀĠ	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	accttgtgggctggcccgctcctcaaggttcccgctcattgacaccctgtacctgcgct	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	cctcggacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccgaggtg	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960

Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	acctgcatgctcccaccggcagcggtaagagcaccaaggtcccggctgcgtacgcagccc	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141 4201	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4200 4260
Query Sbjct	4201	CIGGCAGCCCCAICACGIACICCACCIACGGCAAGIICCIIGCCGACGGCGGGIGCICAG	4260
Query	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261		4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321		4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381		4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621 4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680 4680
Sbjct Ouerv	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681		4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	ĠĊĊĊĊĊĊĠĠĊĂŢĠŢĊĠĂĊŢĊĠŢĊĊĠŢĊĊŢĊŢĠŢĠĀĠŢĠĊŢĀŢĠĀĊĠĊĠĠĠĊŢĠŢĠĊŢŢ	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041 5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	504I	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100

Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	ŤĠŤĠĠĂĂĠŤĠŤŤŤĠĂŤĊĊĠĊĊŤŤĂĂĂĊĊĊĂĊĊĊŤĊĊĂŤĠĠĠĊĊĂĂĊĂĊĊĊĊŤĠĊŤĂŤĂĊĀ	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTggggggGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	gcccggcgagggggagtgaatgaaccggctaatagccttcgcctcccggggga	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	accardititccccacdcactacdtdccddadadcdatdcadccdcccdc	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240

Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	agtgtaccactccatgctccggttcctggctaagggacatctggactggatatgcgagg	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	ŤĠĊŤĠĂĠĊĠĂĊŤŤŤŔĂĠĂĊĊŤĠĠĊŤĠĂŔĂĠĊĊĂĂĠĊŤĊĂŤĠĊĊĂĊĂĂĊŤĠĊĊŤĠĠĠĂŤŤĊ	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	ĊĀĠĀĠĠĀĀŦĀĊĠŦĠĠĀĠĀŦĀĀĠĠĊĠĠĠŦĠĠĠĠĠĀĊŦŦĊĊĀĊŦĀĊĠŦĀŦĊĠĠĠŦĀŦĠĀĊŦĀ	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	ĊŢĠĀĊĀĀŢĊŢŢĀĀĀŢĠĊĊĠŢĠĊĊĀĠĀŢĊĊĊĀŢĊĠĊĊĠĀĀŢŢŢŢĊĀĊĀĠĀĀŢŢĠĠĀĊĠ	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	ĠĠĠŦĠĊĠĊĊŦĂĊĂĊĀĠĠŦŦŦĠĊĠĊĊĊĊŦŦĠĊĀĀĠĊĊĊŦŦĠĊŦĠĊĠĠĠĀĠĠĀĠĠŦĀŦĊĀŦ	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	tcagagtaggactccacgagtacccggtggggtcgcaattaccttgcgagcccgaaccgg	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	acgtagccgtgttgacgtccatgctcactgatccctcccatataacagcagaggcggccg	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	ggagaaggttggcgagagggtcacccctttctatggccagctcctcggctagccagctgt	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	ccgctccatctctcaaggcaacttgcaccgccaaccatgactccctgacgccgagctca	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380

Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381		7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441		7500
Query	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501		7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561		7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621		7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681		7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741		7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	tggaagacagtgtaacaccaatagacactaccatcatggccaagaacgaggttttctgcg	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	ttcagcctgagaagggggtcgtaagccagctcgtctcatcgtgttccccgacctggcg	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TĠĊĠĊĠŤĠŤĠĊĠĂĠĂĂĠĂŤĠĠĊĊĊŤĠŦĂĊĠĂĊĠŤĠĠŤŤĂĠĊĂĂĠĊŤĊĊĊĊĊŤĠĠĊĊĠŤĠĀ	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	ŤĠĠĠĂĂĠĊŤĊĊŤĂĊĠĠĂŤŤĊĊĀĂŤĂĊŤĊĂĊĊĂĠĠĂĊĂĠĊĠĠĠŤŤĠĂĂŤŤĊĊŤĊĠŤĠĊĀĀĠ	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	ĊĠŦĠĠŔĠŢĊĊŔĠŖŔĠŔĊĊĊĠŔŦĠĠĠĠŦŦĊŦĊĠŦŔŦĠŔŦŔĊĊĠĊŦĠŦŦŦŦĠŔĊŦĊĊŔ	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	ĊAĠŦĊĀĊŦĠĀĠĀĠĊĠĀĊĀŦĊĊĠŦĀĊĠĠĀĠĠĀĠĠĊĀĀŦŦŦĀĊĊĀĀŦĠŦŦĠŦĠĀĊĊŦĠĠĀĊĊ	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	cccaagcccgcgtggccatcaagtccctcactgagaggctttatgttgggggccctttta	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	ccaattcaagggggaaaactgcggctaccgcaggtgccgcgcgagcggcgtactgacaa	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	ctagctgtggtaacaccctcacttgctacatcaaggcccgggcagcctgtcgagccgcag	8520

Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	ggctccaggactgcaccatgctcgtgtgtggcgacgacttagtcgttatctgtgaaagtg	8580
Query	8581	CGGGGGTCCAGGAGGCGGGGGGGGCTATGACCAGGTACT	8640
Sbjct	8581	cgggggtccaggaggacgcgagcctgagagccttcacggaggctatgaccaggtact	8640
Query	8641	CCGcccccccggggacccccCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	cctccaacgtgtcagtcgcccacgacgcgctggaaagagggtctactaccttacccgtg	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACCCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	cctggctaggcaacataatcatgtttgcccccacactgtgggcgaggatgatactgatga	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	cccatttctttagcgtcctcatagccagggatcagcttgaacaggctcttaactgtgaga	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	tctacggagcctgctactccatagaaccactggatctacctccaatcattcaaagactcc	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	tccgcgctaggcttctgtccagaggaggcaggctgccatatgtggcaagtacctcttca	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGGC	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	tgtccggttggttcacggctacagcggggagacatttatcacagcgtgtctcatg	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	cccggccccgctggttctggttttgcctactcctgctcgctgcaggggtaggcatctacc	9360
Query	9361	TCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGttt	9420
Sbjct	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGTTT	9420
Query	9421	######################################	9480
Sbjct	9421	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9480
Query	9481	tttettttccettettAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA	9540
Sbjct	9481	TTTCTTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA	9540
Query	9541	AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT	9599
Sbjct	9541	AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT	9599

>**gb|EA110745.1|** Sequence 2 from patent US 7201911 Length=9599

Score = 1.773e+04 bits (9599), Expect = 0.0 Identities = 9599/9599 (100%), Gaps = 0/9599 (0%) Strand=Plus/Plus GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 60 Query 60 Sbjct 1 Query 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 120 TCTTCÁCGCÁGÁÁÁGCGTCTÁGCCÁTGGCGTTÁGTÁTGÁGTGTCGTGCÁGCCTCCÁGGÁC Sbjct 61 120 121 ecococtCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180 Query Sbjct 121 CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180 181 GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC 240 Query Sbjct 181 240 241 GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG 300 Query GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG 241 300 Sbjct 301 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360 Query 301 360 Sbjct 361 CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420 Query 361 CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420 Sbjct GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC 421 480 Query 421 480 Sbjct Query 481 GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540 Sbjct 481 540 541 AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG 600 Query AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG 541 600 Sbjct 601 GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT Query 660 Sbjct 601 660 Query 661 GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA 720 720 Sbjct 661 721 CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG 780 Query ĊĠŦĠĊĠĠĊŦŦĊĠĊĊĠĂĊĊŦĊĂŦĠĠĠĠŦĂĊĂŦĂĊĊĠĊŦĊĠŦĊĠĠĊĠĊĊĊĊŦĊŦŦĠĠĂĠĠĊĠ Sbjct 721 780 781 CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG 840 Query Sbjct 781 840 841 GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG 900 Query 841 900 Sbjct Query 901 TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT 960 901 960 Sbjct Query 961 GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG 1020 ĠĊĊĊŤĂĂĊŤĊĠĂĠŤĂŦŤĠŤĠŤĂĊĠĂĠĠĊĠĠĊĊĠĂŤĠĊĊĂŤĊĊŤĠĊĂĊĂĊŤĊĊĠĠĠĠŤĠŤĠ 961 1020 Sbjct TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1021 1080 Query Sbjct 1021 TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG 1080

Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	ccaccaggacgcaaactcccacaacgcagcttcgacgtcatatcgatctgcttgtcg	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ĠĠĂĠĊĠĊĊĂĊĊĊŤĊŤĠĊŤĊĠĠĊĊĊŤĊŤĂĊĠŤĠĠĠĠĠĂĊĊŤĠŤĠĊĠĠĠŤĊŤĠŤĊŤ	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTTTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560 1560
Sbjct	1501 1561	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681		1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741		1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	acagctggggtgcaaatgatacggatgtcttcgtccttaacaacaccaggccaccgctgg	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ġĊaattġġttċġġttġtaċċtġġatġaaċtċaaċtġġattċaċċaaaġtġtġċġġaġċġċ	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACACCCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	cccttgtgtcatcggagggtggcaacaacaccttgctctgcccactgattgcttcc	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊĂĂĂĊĂŤĊĊĠĠĂĂĠĊĊĂĊĂŤĂĊŤĊŤĊĠĠŤĠĊĠĠĊŤĊĊĠĠŤĊĊĊŤĠĠĂŤŤĂĊĂĊĊĊĀĠĠŤ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220

Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	tcaaagtcaggatgtacgtgggaggggtcgagcacaggctggaagcggcctgcaactgga	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	ĊĠĊĠĠĠĠĊĠĂĂĊĠĊŤĠŤĠĂŤĊŤĠĠĂĂĠĂĊĂĠĠĠĂĊĂĠĠŤĊĊĠĂĠĊŤĊĂĠĊĊĊĠŤŤĠĊŤĠĊ	2340
Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820 2880
Query	2821 2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct Querv	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCC	2940
Sbjct	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC  AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC	2940
Query	2941	agggggaCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATCCCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181		3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301		3360

0	2261		2.420
Query	3361 3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420 3420
Sbjct			
Query Sbjct	3421 3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480 3480
_	-		3540
Query Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
_			
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141 4201	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4200 4260
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct			4320
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	
Sbjct	4261	GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGTCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500

Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query Sbjct	4561 4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620 4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680
Query	4681	ACTTCGACTCTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	gcccctccggcatgttcgactcgtccgtcctctgtgagtgctatgacgcgggctgtgctt	4920
Query	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	ggtatgagctcacgcccgagactacagttaggctacgagcgtacatgaacaccccgg	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	ggcttcccgtgtgccaggaccatcttgaattttgggagggcgtctttacgggcctcactc	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	atatagatgcccactttttatcccagacaaagcagagtggggagaactttccttacctgg	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640

0110227	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query Sbjct	5641	ATTICATCAGTGGGATACCATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TIGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701		5760
Query	5761	TCCTCTTCAACATATTgggaaagTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761		5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821		5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	agtgtaccactccatgctccggttcctggctaagggacatctgggactggatatgcgagg	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TĠĊŢĠĂĠĊĠĂĊŢŢŢĀĀĠĂĊĊŢĠĠĊŢĠĀĀĀĠĊĊĀĠĊŢĊĀŢĠĊĊĀĊĀĀĊŢĠĊĊŢĠĠĠĀŢŢĊ	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	ĊĊŦŦŦĠŦĠŦĊĊŦĠĊĊĂĠĊĠĊĠĠĠŦĂŦĂĠĠĠĠĠĠŦĊŦĠĠĊĠĀĠĀĠĠĠĊĀŦŦĀŦĠĊĀĊĀ	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	ĊŤĊĠĊŤĠĊĊĂĊŤĠŤĠĠĂĠĊŤĠĂĠĂŤĊĂĊŤĠĠĂĊĂŤĠŤĊĂĂĂĂĂĊĠĠĠĂĊĠĂŤĠĀĠĠĂŤĊĠ	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	ŤĊĠĠŤĊĊŤĂĠĠĂĊĊŤĠĊĂĠĠĂĂĊĂŤĠŤĠĠĂĠŤĠĠĠĂĊĠŤŤĊĊĊĊĂŤŤĂĂĊĠĊĊŤĂĊĂĊĊĀ	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	ĊĠĠĠĊĊĊĊŤĠŤĂĊŤĊĊĊĊŤŤĊĊŤĠĊĠĊĊĠĂĂĊŤĂŤĂĂĠŤŤĊĠĊĠĊŤĠŤĠĠĂĠĠĠŤĠŤĊŤĠ	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	ĊĠĠĠĠĠĠĠŦĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĊŦŦĊĊĠĊŦĸĊĠŦĸŦĊĠĠĠŦĸŦĠĸĊŦĸ	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	ĊŤĠĂĊĂĂŤĊŤŤĂĂĂŤĠĊĊĊĠŤĠĊĊĂĠĂŤĊĊĊĂŤĊĠĊĊĊĠĂĂŤŤŤŤĊĂĊĂĠĂĂŤŤĠĠĂĊĠ	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	ĠĠĠŦĠĊĠĊĊŦĸĊĸĊĸĠĠŦŦŦĠĊĠĊĊĊĊĊŦŦĠĊĸĸĠĊĊĊŦŦĠĊŦĠĊĠĠĠĸĠĠĸĠĠĸĠĠŦĸŦĊĸŦ	6780

Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query Sbict	6841 6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900 6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901		6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	agaacaaagtggtgattctggactccttcgatccgcttgtggcagaggaggatgagcgg	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query Sbjct	7381 7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440 7440
Query	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGGGGGGGGGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGeeccceTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501		7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	gcaactcgttgctacgccatcacaatctggtgtattccaccacttcacgcagtgcttgcc	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	tĠĊtĊaaĠĠaĠĠtĊaaaĠĊaĠĊĠĠĊĠtĊaaaaĠtĠaaĠĠĊtaaĊttĠĊtatĊĊĠtaĠaĠĠ	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTĞCAGCCTĞACĞCCCCACATTCAĞCCAAATCCAAĞTTTĞĞCTATĞĞĞĞCAAAAĞ	7920

Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Query Sbjct	8101 8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160 8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161		8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221		8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281		8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	cccaagcccgcgtggccatcaagtccctcactgagaggctttatgttgggggccctctta	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520 8580
Query Sbjct	8521 8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581		8640
Query	8641	CCGcccccccgggggaccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641		8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGAC	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881 8941	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA  TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	8940 9000
Query Sbjct	8941		9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001		9060
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Sbjct
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                 ACTGGGCÁGTÁAGÁACÁAAGCTCAÁACTCACTCCAATÁGCGGCCGCTGGCCGGCTGGACT
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         9301
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Query
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Sbjct
                                                                                                    9360
         9361
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                                                                                                    9420
Query
                 9361
                                                                                                    9420
Sbjct
         9421
                 t to the total 
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Query
                 9421
                 9480
Sbjct
         9481
                 EBBOTTH BEOCCHTOEBBAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA
                                                                                                    9540
Query
                 9481
                 TTTCTTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA
                                                                                                    9540
Sbjct
                 AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT
         9541
                                                                                                   9599
Query
                 Sbjct
                                                                                                   9599
>gb|EA029856.1| Sequence 13 from patent US 7141405 Length=9599
 Score = 1.773e+04 bits (9599), Expect = 0.0 Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
 Strand=Plus/Plus
                 GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
Query
                 Sbjct
         1
                                                                                                    60
Query
         61
                 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
                                                                                                    120
                 120
Sbjct
         61
         121
                 cccccccCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
                                                                                                    180
Query
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Sbjct
         121
                                                                                                    180
         181
                 GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC
                                                                                                    240
Query
                 Sbjct
         181
                                                                                                    240
         241
                 GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
                                                                                                    300
Query
                 GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
         241
                                                                                                    300
Sbjct
         301
                 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
                                                                                                    360
Query
                 301
                                                                                                    360
Sbjct
Query
         361
                 CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
                                                                                                    420
                 361
                 CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
                                                                                                    420
Sbjct
                 GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
         421
                                                                                                    480
Query
                 Sbjct
         421
                 GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
                                                                                                    480
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Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query Sbict	541 541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600 600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601		660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	ctgccagggccctggcgcatggcgtccgggttctggaagacggcgtgaactatgcaacag	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	ĠĠààĊĊŤŤĊĊŤĠĠŤŤĠĊŤĊŤŤŤĊŤĊŤĂŤĊŤŤĊĊŤŤĊŤĠĠĊĊĊŤĠĊŤĊŤĊŤŤĠĊĊŤĠàĊŤĠ	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query Sbict	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGTTGG	1140
Sbjct	1081		1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	ttggtcaactgttaccttctctccaggcgccactggacgacgacgcaagactgcaattgtt	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441 1501	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500 1560
Query Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
22,00	1001		1020

Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	tcaactcttcaggctgtcctgagaggttggccagctgccgacgccttaccgattttgccc	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AĠĠĠĊŦĠĠĠĠŦĊĊŦĂŦĊĀĠŦŦĀŦĠĊĊĀĀĊĠĠĀĀĠĊĠĠĊĊŦĊĠĀĊĠĀĀĊĠĊĊĊŦĀĊŦĠĊŦ	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	ĠĠĊĂĊŦĂĊĊĊŦĊĊĂĂĠĂĊĊŦŦĠŦĠĠĊĂŦŦĠŦĠĊĊĊĠĊĂĂĂĠĂĠĊĠŦĠŦĠŦĠĠĊĊĊĠĠŦĂŦ	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ĠĊĀĀŤŤĠĠŤŤĊĠĠŤŤĠŤĂĊĊŤĠĠĀŤĠĀĀĊŤĊĀĊŤĠĠĀŤŤĊĀĊĊĀĀĀĠŤĠŤĠĊĠĠĀĠĊĠĊ	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	cccttgtgtcatcggagggtggcaacaacaccttgctctgcccactgattgcttcc	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊĂĂĂĊĂŤĊĊĠĠĂĂĠĊĊĂĊĂŤĂĊŤĊŤĊĠĠŤĠĊĠĠĊŤĊĊĠĠŤĊĊĊŤĠĠĂŤŤĂĊĂĊĊĊĂĠĠŤ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	ĠĊĂŢĠĠŢĊĠĂĊŢĂĊĊĊĠŢĂŢĂĠĠĊŢŢŢĠĠĊĂĊŢĂŢĊĊŢŢĠŢĂĊĊĂŢĊĂŢŢĀĊĀĊĊĀŢĀŢ	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	ŤĊŔŔŔĠŤĊŔĠĠŔŤĠŦŔĊĠŤĠĠĠŔĠĠĠŤĊĠŔĠĊŔĊŔĠĠĊŤĠĠŔŔĠĊĠĠĊĊŤĠĊŔŔĊŤĠĠŔ	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	ŤĠŤĊĊĂĊĂĊĂĊĂĠĠĠĠĠĠĠĠĠŤĊĊŤŤĊĠĠŤĠŤŤĊŤŤŤĊĂĊĠĂĊĊĊŤĠĊĊĂĠĊĊŤŤĠŤĊĊĂ	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	ĊĀĠĀĊĠĊĠĊĠĊĠŤĊŤĠĊŤĊĊŤĠĊŤŤĠŤĠĠĀŤĠŤŤĀĊŤĊĀŤĀŤĊĊĊĀĀĠĊĠĠĀĠĠĊĠĠ	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	ccttcctcgtgttcttctgctttgcgtggtatctgaagggtaggtgggtg	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	tctacgccctctacgggatgtggcctctcctcctgctcctgctgctgccttaccggg	2760

Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query Sbict	2881 2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGCGGGGGTCAACGTCC	2940 2940
Query	2941	aggagggCGCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATCCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCCCTTACTGGCA	3180
Sbjct	3121	agatagccggaggtcattacgtgcaaatggccatcatcaagttaggggcgcttactggca	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3300 3360
Sbjct	3301		3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct Query	3481 3541	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC  AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3540 3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ÁTAGCÁGGGGTÁGCCTGCTTTCGCCCCGGCCCÁTTTCCTÁCTTGÁAÁGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900

0	2001		2000
Query Sbict	3901 3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960 3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4020
Sbjct	4021		4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141		4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261		4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321		4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381		4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	rggrcgcattgggcatcaargccgrggcctactaccgcggrctrgacgrgrctgrcatcc	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	ĊĠĂĊĊĀĠĊĠĠĊĠĀŦĠŦŦĠŦĊĠŦĠŦĠŦĊĠĀĊĠĀŦĠĊŦĊŦĊĀŦĠĀĊŦĠĠĊŦŦŦĀĊĊĠĠĊĠ	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGÁCTCTGTGÁTÁGÁCTGCÁÁCÁCGTGTGTCÁCTCÁGÁCÁGTCGÁTTTCÁGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040

Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	tigtiggaagtigtitigaticigcittaaacccacciticiatigggccaacaccicitigctataca	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	catgcatgtcggccgacctggaggtcgtcacgagcacctgggtgctcgttggcggcgtcc	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	rggcrgcrcrggccgcgrattgccrgrcaacaggcrgcgrggrcaragrggcaggarcg	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	tcttgtccgggaagccggcaattatacctgacagggaggttctctaccaggagttcgatg	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	cccctgctgtccagaccaactggcagaaactcgaggtctttttgggcgaagcacatgtgga	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	atttcatcagtgggatacaatacttggcgggcctgtcaacgctgcctggtaaccccgcca	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	tráctrica tráca gáctrita ca áctác cácta ácca chácta ácca chácta a chácta ácca chácta ácta ácta ácta ácta ácta ácta ácta	5760
Query	5761	TCCTCTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTA	5820
Sbjct	5761	tcctcttcaacatattggggggtgggtggctgcccagctcgccgcccccggtgccgcta	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	ĊŦĠĊĊŦŦĠŦĠĠĠŦĠĊŦĠĠĊĊŦĸĠĊŦĠĠĊĠĊĊĠĊĊĸŦĊĠĠĊĸĠĊĠŦŦĠĠĸĊŦĠĠĠĠĸĸĠĠ	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	tcctcgtggacattcttgcagggtatggcgcggggcgtggcgggagctcttgtagcattca	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAATGCAATGATCGCCTAATAGCCTTCGCCTCCCGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180

Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TÁCTCÁGCÁGCCTCÁCTGTÁACCCÁGCTCCTGÁGGCGÁCTGCÁTCÁGTGGÁTÁÁGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360 6360
Sbjct Query	6301 6361	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbict	6361		6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421		6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481		6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	cgggccctgtactcccttcctgcgccgaactataagttcgcgctgtggagggtgtctg	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct Query	6661 6721	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6720 6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781		6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct Query	6901 6961	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	6960 7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021		7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081		7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	aggrerecticegracergeagaarrecteggaagarreceeggeeergeegg	7200
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Sbjct	7201	TCTGGGCGGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320

Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	ctcggaaaaagcgtacggtgctctcaccgaatcaaccctatctactgccttggccgagc	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	ttgccaccaaaagttttggcagctcctcaacttccggcattacggcgacaatacgacaa	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCGACGTTCAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGGGGGGGTGGGGGGGGGCCTGGGGGTCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920 7980
Query	7921 7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct Query	7921	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	IGGAAGACAGIGIAACACCAATAGACACTACCATCAIGGCCAAGAACGAGGIIIICIGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGCG	8100
Sbict	8041		8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101		8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
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Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221		8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281		8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341		8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401		8460

Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	ctagctgtggtaacaccctcacttgctacatcaaggcccgggcagcctgtcgagccgcag	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	ĠĠĊŢĊĊĀĠĠĀĊŢĠĊĀĊĊĀŢĠĊŢĠŢĠŢĠĠĊĠĀĊĠĀĊŢŢĀĠŢĊĠŢŢĀŢĊŢĠĀĀĀĠŢĠ	8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGcccccccggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACCCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
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Sbjct	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
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Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240 9240
Sbjct	9181 9241	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9300
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Sbjct	9301	CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query Sbjct	9301	CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTGCTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTG	9420
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Query	9421	tttattttttttttttttttttttttttttttttttttt	9540
Sbjct	9481		9540
Query	9541	AGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT	9599
Sbjct	9541		9599
ر			

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Score = 1.773e+04 bits (9599),
                       Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus
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Sequence 6 from patent US 7129342

Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	ĊĊĂĊĊĂĠĠĠĂĊĠĠĊĂĂĂĊŤĊĊĊĠĂĊĂĊĠĊĂĠĊŤŤĊĠĂĊĠŤĊĂŤĂŤĊĠĂŤĊŤĠĊŤŤĠŤĊĠ	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGCCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561 1621	CCAAGCAGAACATCCAACTGATCAACACCCACCGTCCTTACCACCCCTCTTTTCTATCAACACAAAAT	1620 1680
Query Sbjct	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
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Sbict	1741		1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801		1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861		1920
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Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
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Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		2160

Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
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Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
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Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
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Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760 2820
Query	2761 2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct Querv	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	I I I I I I I I I I I I I I I I I I I	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGCCCCCTCAACGTCC	2940
Sbjct	2881		2940
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Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		3120
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Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181		3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		3300

Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	ĠĠĠĊĀĠĀŤĀĊĊĠĊĠĊĠŤĠĊĠĠŤĠĀĊĀŤĊĀŤĊĀĀĊĠĠĊŤŤĠĊĊĊĠŤĊŤĊŤĠĊĊĊĠŤĀĠĠĠ	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	ĠĊĊŔĠĠŔĠŔŦŔĊŦĠĊŦŦĠĠĠĊĊŔĠĊĊĠŔĊĠĠŔŔŦĠĠŦĊŦĊĊŔŔĠĠĠĠŦĠĠŔĠĠŦŦĠĊŦĠĠ	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
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Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
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Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
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Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
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Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3900 3960
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Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
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Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141		4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
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Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
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Query	4681 4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740 4740
Sbjct Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		4800
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Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
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Sbjct	4921	GGTATGAGCTCACGCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	ġĠĊŢŢĊĊĠŢĠŢĠĊĊĀĠĠĀĊĊĀŢĊŢŢĠĀĀŢŢŢĠĠĠĀĠĠĠĊĠŢĊŢŢŢĀĊĠĠĠĊĊŢĊĀĊŢĊ	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101 5161	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA  TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5160 5220
Query Sbjct	5161		5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
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Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
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Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580

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Sbjct	5581	ccctgctgtccagaccaactggcagaaactcgaggtcttttgggcgaagcacatgtgga	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ÁTTTCÁTCÁGTGGGÁTÁCÁÁTÁCTTGGCGGGCCTGTCÁÁCGCTGCTGGTÁÁCCCCGCCÁ	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
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Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060 6060
Sbjct	6001 6061	GCCCGGCCAGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
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Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
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Sbjct	6181		6240
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Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	ctcgctgccactgtgagatcactggacatgtcaaaaaacgggacgatgaggatcg	6480
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Sbjct	6481	tcggtcctaggacctgcaggaacatgtggagtgggacgttccccattaacgcctacacca	6540
Query	6541	CGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	cgggccctgtactcccttcctgcgccgaactataagttcgcgctgtggagggtgtctg	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	ĊAĠAĠĠAATAĊĠŦĠĠAĠATAAĠĠĊĠĠĠŦĠĠĠĠĠAĊŦŦĊĊAĊŦAĊĠŦAŦĊĠĠĠŦAŦĠAĊŦA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720

Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	ĠĠĠŦĠĊĠĊĊŦĂĊĀĊĀĠĠŦŦŦĠĊĠĊĊĊĊŦŦĠĊĀĀĠĊĊĊŦŦĠĊŦĠĊĠĠĠĀĠĠĀĠĠŦĀŦĊĀŦ	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	ŤĊĂĠĂĠŤĂĠĠĂĊŤĊĊĂĊĠĂĠŤĂĊĊĊĠĠŤĠĠĠĠŤĊĠĊĂĂŤŤĂĊĊŤŤĠĊĠĂĠĊĊĊĠĂĂĊĊĠĠ	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
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Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
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           Sequence 67 from patent US 7084266
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Score = 1.773e+04 bits (9599), Expect = 0.0 Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus
Query
    1
        GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
                                                   60
        60
Sbjct
    1
    61
        TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
                                                   120
Query
         TCTTCÁCGCÁGÁÁÁGCGTCTÁGCCÁTGGCGTTÁGTÁTGÁGTGTCGTGCÁGCCTCCÁGGÁC
    61
                                                   120
Sbjct
    121
        COCCOCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
                                                   180
Query
        Sbjct
    121
                                                   180
    181
        GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC
                                                   240
Query
        181
                                                   240
Sbjct
Query
    241
        GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
                                                   300
        241
                                                   300
Sbjct
Query
    301
        GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
                                                   360
         301
        GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
                                                   360
Sbjct
        CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
    361
                                                   420
Query
         Sbjct
    361
        CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
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```

Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query Sbjct	1261 1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320 1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		1380
_	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAA	1440
_	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
_	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	TOOT	DJDJAJJAJA I I JJI I JDD I I JDDD I JDDJAJJAJDDJDD I AAADDDDDD I AA	TOOU

Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	ŤĠĂĂŤŤĠĊĂĂŤĠĂĂĂĠĊĊŤŤĂĂĊĂĊĊĠĠĊŤĠĠŤŤĂĠĊĂĠĠĠĊŤĊŤŤĊŤĂŤĊĂĂĊĂĊĂĂĂŤ	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920 1980
Query	1921 1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		2340
Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ctttggagaacctcgtaatactcaatgcagcatccttggccgggacgcacggtcttgtgt	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700

Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	tctacgcctctacgggatgtggcctctcctcctgctcctgctgctgccttgcctcagcgg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	ĊĂŦĂĊĠĊĂĊŦĠĠĂĊĂĊĠĠĀĠĠŦĠĠĊĠĊĠŦĊĠŦĠŦĠĠĊĠĠĊĠŦŦĠŦŦĊŦŦĠŦĊĠĠĠŦŦĀĀ	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTGGGGGGTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420 3420
Sbjct	3361	GCCAGGAGATACCGCCTACGCCACCACACACCACACCCCTACTACACCACACCC	
Query	3421 3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480 3480
Sbjct Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		3840

Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	ĠŦĠĠAĠŦĠĠĊŦÀAAĠĊĠĠŦĠĠAĊŦŦŦĂŦĊĊĊŦĠŦĠĠAĠAAĊĊŦĀĠĠĠAĊAAĊĊĀŦĠĀĠĀŦ	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct Query	4021 4081	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC  AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4080 4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141		4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TĠĠĠĊĂŢĊĠĠĊĂĊŢĠŢĊĊŢŢĠĂĊĊĂĂĠĊĂĠĂĠĂĊŢĠĊĠĠĠĠĠĠĠĠ	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500 4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561		4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	acttcgactctgtgatagactgcaacacgtgtgtcactcagacagtcgatttcagccttg	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query Sbjct	4861 4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920 4920
Query	4921	GGTATGAGCTCACGCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4920
Sbjct	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG  GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
ر			

Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	ġĠĊŦŦĊĊĊĠŦĠŦĠĊĊĂĠĠĂĊĊĂŦĊŦŦĠĂĂŦŦŦŦĠĠĠĀĠĠĊĠŦĊŦŦŦĂĊĠĠĠĊĊŦĊĀĊŦĊ	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ÁTÁTÁGÁTGCCCÁCTTTTTÁTCCCÁGÁCÁÁÁGCÁGÁGTGGGGÁGÁÁCTTTCCTTÁCCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	ÁGÁTGGÁÁGÁGTGCTCÁGCÁCTTÁCCGTÁCÁTCGÁGCÁÁGGGÁTGÁTGCTCGCTGÁGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	ÁĞTTCÁÁĞCÁĞÁÁĞGCCCTCĞGCCTCCTĞCÁĞÁCCĞCĞTCCCĞCCÁTĞCÁĞÁĞĞTTÁTCÁ	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	ŤŤĠĊŤŤĊĂŤŤĠĂŤĠĠĊŤŤŤŤĂĊĂĠĊŤĠĊĊĠŤĊĂĊĊĂĠĊĊĊĂĊŤĂĂĊĊĂĊŤĠĠĊĊĂĂĂĊĊĊ	5760
Query	5761	TCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	ŤĊĊŤĊĠŤĠĠĂĊĂŤŤĊŤŤĠĊĂĠĠĠŤĂŤĠĠĊĠĊĠĠĠĊĠŤĠĠĊĠĠĠĂĠĊŤĊŤŤĠŤĂĠĊĂŤŤĊĂ	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	agatcatgagcggtgaggtcccctccacggaggacctggtcaatctgctgcccatcc	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	tctcgcctggagcccttgtagtcggtgtgtctgcgcagcaatactgcgccgcacgttg	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120

Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	accatigiticcccacicactacificcigiagaigciaticaicicicicicacticca	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	ŤÁĊŤĊÁĠĊÁĠĊĊŤĊÁĊŤĠŤÁÁĊĊĆÁĠĊŤĊĊŤĠÁĠĠĊĠÁĊŤĠĊÁŤĊÁĠŤĠĠÁŤÁÁĠĊŤĊĠĠ	6240
Query	6241	AGTGTACCACTCCATGCTCCGGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541 6601	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG  CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6600 6660
Query Sbict	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661		6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721		6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781		6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	ĠĠĀĠĀĀĠĠŦŦĠĠĊĠĀĠĀĠĠŦĊĀĊĊĊĊŦŦĊŦĀŦĠĠĊĊĀĠĊŦĊĊŦĊĠĠĊŦĀĠĊĊĀĠĊŦĠŦ	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCCGAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	ÁGGTÉTÉCGTÁCÉTGCÁGÁÁÁTTÉTGCGGÁÁGTÉTÉGGÁGÁTTÉGCÉCGGGCÉCTGCÉCG	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260

bety         7261         AACCACTETIGETICATIGGTICACTGGCTCACCGCTCACCGTTCCCTCTGTGCTCCCCC         7320           Spjet         7321         AACCACCTGTGGTCCACTGGTCACCGCTCACCGCTCCCTCTGTGCCTCCCCC         7320           Guezy         7321         CTCGGGAAAAGGTTACGTGCTCACCGCAACCACTCACACGTCTCTCACGGCGACAATACGGCGACAATACGACAA         7380           Guezy         7381         TTGCCACCAAAAGGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA         7440           Sbjet         7381         TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA         7440           Sbjet         7441         CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCCCCAACTGGGGGCACTGAGCTCATACTTTT         7500           Sbjet         7441         CATCGTCTGAGCCCGCCCTTCTGGCTGCCCCCCCCCAACTGGGGGTGAGCTCATGTCTT         7500           Sbjet         7501         CATGGGCACCCCTGCGGGGGGACCCTGGGGTCCGGACTCGAGCTGAGCCTGAGCTGATGTCGA         7500           Sbjet         7501         CATGGCCACCCCCTGGGGGGGACCCTGGGTGCCGACTCGAGCGAG				
Spict         7261         AACCACCTGTGGTCCATGGCTGCCGGTTACCACCTTCTGTGCCTCCTCCT         7320           Ouery         7321         CTGGGAAAAGCGTAGGGTGGTCCATGCGATCAACCCTATCTACTGCTTGGCCGGAC         7380           Ouery         7381         TTGGCACAAAGCTTTTGGCAGCTCACCGGATCAACCCTATCTACTGCTTGGCCGAC         7440           Spict         7381         TTGCCACCAAAGCTTTTGGCAGCCTCCTCAACTTCCGGCTGCACCAATACGACAA         7440           Query         7441         CATCCTGGACCCCCCCCCTTCTGGCTGCCCCCCCCCCTCTACGTCGACTTCTT         7500           Spict         7561         CCATGGCCCCCCCCCTTCTGGTGCCCCCCCCCCCTCTCAACGGACGG	Query	7261		7320
Spic         7321         CTCGGAAAAACCCTACGGTGGTCCTCACCGAATCAACCTATACTACTCTGGCCAGC         7381           Query         7381         TTGCCACCAAAAGCTTTGGCAGCTCCTCACTTCCGGCATTACGGCGACAATACGACAA         7440           Spjct         7381         TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACAA         7440           Ouery         7441         CATCCTCTGACCCCGCCCCTTGGCTGCCCCCCCCCACTCGACGTTCAACTTCTT         7500           Spjct         7501         CATCCTCTGACCCCCGCCCTTGTGGCTGCCCCCCCCCCACTCGACGTTCAACTGCATTCTT         7500           Query         7561         CCATGGCACCCCTGGAGGGGGACCTGGGGATCCGGATCTCGACGGGCACTGGGCA         7560           Query         7561         CGGTCAGTAGTGGGGGCCGACACGGAACATCGGTGCTGCTCAACGGGTATGTCTCAAT         7560           Query         7561         CGGTCAGTAGTGCGGCCGCACACGGAACATCGTGTGCTGCTCAATGCTTAATCCTTAATCCTCCAA         7620           Spjct         7561         CGGTCAGTGTGCGCCCCCGACACGGAACATCGTGTGCTGCTCAAAAACTCCCATTCAACGCACTTCACCCATTCACCCACTTCACCCACTTCACCCACTTCACCCACTTCACCCACTTCACCCACTTCACCCACTTCACCCACTTCACCCACTTCACCCACTTCACCCACTTCACCCCATTCACCCACTTCACCCCATTCACCCCATTCACCCACTTCACCCACTTCACCCCATTCACCCACTTCACCCCATTCACCCCATTCACCCCATTCACCCCATTCACCCCATTCACCCCATTCACCCCATTCACCCCATTCACCCCATTCACCCCATTCACCCCATTCACCCCATTCACCCCCTGCCCCGACACTCCCCCCACTTCACCCCCATTCACCCCCATTCACCCCCATTCACCCCCAC	Sbjct	7261		7320
Sbjet         7321         CTCCGAAAAAACCCTACCGCTGCCCCCACCTCAACCCCTACCTA	Query	7321		7380
Sbjet         7381         TITGCACCANAAGTTTTGGCACCTCCTAACTTCCGGCATTACGGGCACANTAGGACA         7440           Query         7441         CATCCTCTGAGCCCGCCCTTCTGGGTGCCCCCCACATTCAGGCACTTGAGTCCTATTCTT         7500           Sbjet         7441         CATCCTCTGAGCCCGCCCTTCTGGGTGCCCCCCCACATTGAGTCCTATTCTT         7500           Sbjet         7510         CCATGCCCCCCTGGAGGGGGAGCTGGGGATCTCAGGGAGGG	Sbjct	7321		7380
Query         7441         CATCCTCTGAGCCCCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT         7500           Sbjet         7441         CATCCTCTGAGCCCGCCCCTTCTGGGTGCCCCCCCGACTCCGACGTTGAGTCCTATTCTT         7500           Query         7501         CCATGCCCCCCTTGGAGCGGGAGCCTGGGGATCCGACGTTCAGCGAGGTCAGGTCCA         7560           Sbjet         7501         CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGATCTCAGCGAGGGTCATGGTCGA         7560           Cuery         7512         CCGTCAGTAGTGGGCCCGACACGGAACATTCCGGTGTGCTCATCTCTATTCTTGCGA         7620           Sbjet         7611         CGGTCAGTAGTGGGGCCGACACGGAACATTCCGTGTGTGT	Query	7381		7440
Sbjet         7441         CATCTCTGAGCCCGCCCCTTTGGGGCTGCCGCCTGAGTGCTGAGTGTTGTT         750           Query         7501         CCATGGCCCCCTTGGAGGGGGGGCTGGGGTTCAGCGACTGGGGCTATGGTCGA         756           Sbjet         7501         CCATGGCCCCCCTGAGGGGGGGGGTCTGGGGATCTCAGCGGACGGGGTATGGTCGA         756           Query         7561         CCGTCAGTAGTGGGGCCGACAGGGAAGATGTCGTGTCCTCAATGTCTTATTCTGGA         762           Sbjet         7561         CGGTCAGTAGTGGGGCCGACAGGGAAGATGTGTGTGTGCTCAATGTCTTATTCTGGA         7680           Query         7621         CAGGCCCATCTGTCACCCCGTGCGCTGCGGAAGAACAAAAAATGTGCCATCAAGGCACTGA         7680           Sbjet         761         CGAGCCCATCTGTGCCCTGTGCGCTGCGGAAGAACAAAAAAATGCCCATTCAACGCACTTGA         7680           Query         761         CAAGCCCACTCTGCTGCCATCACAACTTGGTGTTATTCCACCACTTCACGCAGTGCTTGC         7740           Sbjet         761         GCAACTCTTGTGCTACCACTTGACAATTTGGTGTTATTCCACCACTTCACGCAGTGCTTGC         7740           Sbjet         761         CAAGCCAGAAGAAAGTCACATTTGACAATTTGACAATTTCCACCACTTCACGCAGTGTTGCC         7740           Sbjet         761         AAAGCTAAGAAGTACAATTTGACAAATTGACAATTTGACAAGTTCACACCATTACACCACTTACACCACTTACACCACTTACACCAC	_	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query         7501         CCATGCCCCCTGGAGGGGGAGCCTGGGGATCTCAGCGACGGGTCATGGTCGA         7502           Sbjet         7501         CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCTCAGCGACGGGTATTGGTCGA         7560           Query         7561         CGGTCAGTAGTGGGGCCGACACGGAAGATGTCTGTGTGTCTCAATGTCTTATTCCTGGA         7620           Sbjet         7561         CGGTCAGTAGTGGGGCCGACACGGAAGATGTCTGTGTGTCCAATGTCTTATTCCTGGA         7620           Sbjet         7621         CAGGCCACTCGTCACCCCGTGCGCTGCGCTGTGTGTGTGT	Query	7441		
Sbjet         7501         CCATCCCCCCCTGGGGGGGGGGGGGGTGGGATCTGGGTATGGTGGA         7561           Query         7561         CGGTCAGTAGTGGGGCCGACAGGAAGATGTCGTGTGTCTCAATGTCTTATTCCTGGA         7620           Sbjet         7561         CGGTCAGTAGTGGGGCCGACAGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA         7620           Sbjet         7561         CGGTCAGTAGTGGGGCCGACAGGAAGATGTCGTGCTGCTAATGTCTTATTCCTGGA         7620           Query         7621         CAGGCGACTCGTCACCCCGTGGCGGAAGAACAAAAACTGCCCATCAACAGCACTGA         7680           Sbjet         7621         CAGGCGACTCGTCACCCCGTGGCGTGCGGAAGACAAAAACTGCCCCATTCACACGCATGC         7740           Sbjet         7681         GCAACTCGTTGCTACCCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC         7740           Sbjet         7741         AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG         7800           Sbjet         7801         TGCTCAAGGAGGTCAAAAGTCACATTTGACAGAGCTGCAAGTTCTGGACAGCCATTACCAGGACG         7860           Sbjet         7801         TGCTCAAGGAGGCCAAAAGCCACCCCCCACATTACACCAAATCTCAAGTTTGGCTATGCGGAAAAG         7920           Query         7861         AAGCTTGCACCCTGACCCCCCACATTCACCCAAAACTCAAGTTTGGCTATGGGCAAAAAG         7920           Query         7861         AAGCTTCCATCCAGCACCCCCCACATTCACCCACAACACACCACTACACTCCGTGGGGAAAAAGCGAAAAGAAGCACTACCACTCCACCATCAACTCCAGTGGGAAAAAGCACTACCACTCCACCATCACACCATCACACCATCACACCATCACACCATCACACCATCACACCATCACACCAC	_		CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	
Query         7561         CGGTCAGTAGTGGGGCCGACAGGGAAGATTGCTGTGTCTCATTGTTTATTCCTGGA         7620           Sbjet         7561         CGGTCAGTAGTGGGGGCCGACAGGGAAGATGTGTGTGTGT	_			
Sbjet         7561         CGGTCAGTAGTGGGCCCGACACGGAAGATGTGTTGTGTCATGTCTTATCCTGGA         7620           Query         7621         CAGGGGCACTCGTCACCCCGTGCGCTCGGAAGAACAAAAACTGCCCATCAACGCACTGA         7680           Sbjet         7621         CAGGGGCACTCGTCACCCCGTGCCCTCGGAAGAACAAAAAACTGCCCATCAACGCACTGA         7680           Sbjet         7681         GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTCC         7740           Sbjet         7681         GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTCC         7740           Sbjet         7741         AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC         7800           Sbjet         7741         AAAGGCAGAGAAAGCACGCGGCTCAAAAGTGAAGGTTACGACGCCATTACCAGGAC         7800           Ouery         7801         TGCTCAAGGAGGTCAAAGCAGGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG         7800           Sbjet         7801         TGCTCAAGGAGGTCAAAGCAGGCGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG         7920           Ouery         7861         AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTGGCTATGGGGCAAAAG         7920           Sbjet         7861         AAGCTTGCAGCCCCCACATTCAGCCAAATCCAAGTTGGCTATGGGGCAAAAG         7920           Query         7921         ACGTCCGTTGCATGCCCCCACATTCAGCCAAATCCAATTCGGTTGGCAAGAAGACCTTCCGTTGGGAAGAGCACTTTCCTGGTGGAAGAGCACTTTCCTCGTGTGGAAGAGACCTTTCCCGGTTTACCAAGCACCTTTCCGTGTTACCAAGCACCTTTCCGTGTTACCAAGACCACTTACCACATTCCACT	_	7501	CCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	
Ouery7621CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA7680Sbjct7621CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA7680Query7681GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC7740Sbjct7681GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGGAAGTGCTTGCC7740Query7741AAAGGCAGAAGAAGACCACAATTGACAAGCTGCCAAGTTCTGGACAGCCATTACCAGGACG7800Sbjct7741AAAGGCAGAAGAAGACCCAATTTGACAGACTGCCAAGTTCTGGACAGCCATTACCAGGACG7800Query7801TGCTCAAGGAGGCAAACCACGGCGTCAAAAGTGAAGCAAGC	_			
Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCAAGAAAAAACTGCCAATCAAGCGCACTGA 7680 Query 7681 GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC 7740 Sbjet 7681 GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC 7740 Query 7741 AAAGGCAGAACAAAGTCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC 7740 Query 7741 AAAGGCAGAACAAAGTCACAATTTGACAAGACTGCAAGTTCTGGACAGCCATTACCAGGACG 7800 Query 7801 TGCTCAAGGAAGACAAAGTCACATTTGACAAGACTCGTAAGACTTCTGGACAGCCATTACCAGGACG 7800 Query 7801 TGCTCAAGGAAGGTCAAAGCACAGCCAATACCAAGGACG 7860 Query 7801 TGCTCAAGGAAGCACACCCCACATTCACCAAGATTCTGGACAGCACACTCCATCCA	_			
Query7681GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC7740Sbjet7681GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC7740Query7741AAAGGCAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG7800Sbjet7741AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG7800Query7801TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGCTGCAAGTTCTGCTATCCGTAAGGG7860Sbjet7801TGCTCAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG7860Sbjet7861AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAAATCTAAGTTTGGCTATGCGGACAAAAG7920Sbjet7861AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG7920Query7921ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCCACATCAACTCCGTGTGGAAAGACCTT7980Sbjet7921ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTT7980Query7981TGGAAGACAGTGTAACACCAATAGACACTACCATCATCATCAGTGCCAAGAAGGAGTTTCTGCG8040Sbjet7981TGGAAGACAGTGTAACACCAATAGACACTACCATCATCATCGTGTTCCCTGACCAGGGGGTTTCTGCG8040Query8041TTCCAGCCTGAGAAGGGGGGTCGTAAGCCACCTCGTCTCATCGTGTTCCCCGACCTGGGCG8100Sbjet8041TTCCAGCCTGAGAAGGGGGGTCGTAAGCCACCTGGTCTCATCGTGTTCCCCGACCTGGGCG8100Sbjet8101TGCGCGTGTGCAGAAGATGCCTGTAGCACCTGGTCTACTGTGTTCCCCGACCTGGGCG8100Sbjet8101TGCGCGTGTGCAGAAGATGCCCTGTACGACACTGGTTTAGCAAGGTTTCCATCGTGTCAAG8220Sbjet8161TGGGAAGCTCCTACGGATTCCAATACTCACAGGACAGCGGGTTGAATTCCCTGTGCCAAG8220Sbjet <t< td=""><td>_</td><td>-</td><td></td><td></td></t<>	_	-		
Sbjet 7681 GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC 7740 Query 7741 AAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG 7800 Sbjet 7741 AAAGGCAGAAGAAGATCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG 7800 Query 7801 TGCTCAAGGAGGTCAAAGCAGCGCGCTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG 7860 Sbjet 7801 TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG 7860 Query 7861 AAGCTTGCAGCCCCCCACATTCAGCCAAAACTTGGCTAATCGTAACAGG 7860 Query 7861 AAGCTTGCAGCCCCCCACATTCAGCCAAAACTTGGCTATCGGAAAAG 7920 Query 7921 ACGTCCGTGCCGCCCCCACATTCAGCCAAAACTTGGCTATGGGGAAAAG 7920 Query 7921 ACGTCCGTTGCCATGCCAGAAGGCCCCCACATCAACTCCGTGGGAAAAG 7920 Query 7981 TGGAAGACAGTGCCCCCACATTCAGCCAAAATCCAGTTTGGCTATGGGGAAAAG 7920 Query 7981 TGGAAGACAGTGTAACACCAATAGACCATCAAGTTCCGTGTGGAAAAGACCTTC 7980 Query 8041 TTCAGCCTGAGGCCCCACAATCAACTCCGTGTGGAAAGACCTTC 7980 Sbjet 8041 TTCAGCCTGAGAGAGGCGTTAACACCAATAGACACTACCATCATCGTGTGGAAAGACCTTC 7980 Query 8041 TTCAGCCTGAGAAGGCGTTAACACCAATAGACCACTACACTCCGTGTGGAAAGACCTTCCGTGGAAAGACCAGGTTTTCTGCG 8040 Query 8101 TGCGCGTGTGCAAAAGACACAATAGACCACTACACTCCATCGTGTTCCCCGACCTGGGCG 8100 Query 8101 TGCGCGTGTGCAAAAGGCGCTTAACCACTCATCATCGTTCACCACTCATCGCCAAGAAGCAGAGGTTTTCCGG 8100 Sbjet 8101 TGCGCGTGTGCAAAAGGACAGTCAATAGACCACTACAATCCATCATCGCCAAGAAGCAGAGGTTTTCCGG 8100 Query 8101 TGCGCGTGTGCGAGAAGAGGGGGTTGAACACCAATAGACCACTCACATCAATCCATCC	_			
Query7741AAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG7800Sbjet7741AAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG7800Query7801TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTAACTTGACATACCTGTAACCGTAGAGG7860Sbjet7801TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG7860Query7861AAGCTTGCAGCCTGAAGGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG7920Sbjet7861AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG7920Query7921ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC7980Sbjet7921ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC7980Query7981TGGAAGACAGTGTAACACCAATAGACCAACCAACACACAC	_			-
Sbjet 7741 AAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG 7800 Query 7801 TGCTCAAGGAGGTCAAAAGCAGCGGCGTCAAAAGTGAAGCTACCATACCATAGAGG 7860 Sbjet 7801 TGCTCAAGGAGGTCAAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG 7860 Query 7861 AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATCGGGGCAAAAG 7920 Sbjet 7861 AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG 7920 Query 7921 ACGTCCGTTGCCATGCCAGAAAGGCCTAACCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG 7920 Sbjet 7921 ACGTCCGTTGCCATGCCAGAAAGGCCTAGACCCACATCAACTCCGTGTGGAAAGACCTTC 7980 Query 7981 TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAAGAGCGTTTCTGCG 8040 Sbjet 7981 TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG 8040 Sbjet 8041 TTCAGCCTGAGAAAGGCGGGTCGTAAGCCAACTACACTCCGTGTGGCAAAGACGCTG 8100 Query 8101 TGCGCGTTGCGAGAAGGGGGTCGTAAGCCAACTCACTCATCGTGTCCCCGACCTGGGCC 8100 Query 8101 TGCGCCTGAGAAGGGGGGTCGTAAGCCAAGCTGGTTCCCCGACCTGGGCCG 8100 Sbjet 8101 TGCGCGTTGCGAAGAGGGGGTCGTAAGCCAGCTGGTTTCCCCGACCTGGCCG 8100 Query 8161 TGGGAAGCTCCTACGGATGCCCTGACCCTGTGCTAAGCCACCTGGCCGTGA 8160 Query 8161 TGGGAAGCTCCTACGGATTCCAATACTCACAGGACAGGGGTTTACCCAGCCGTGA 8160 Query 8161 TGGGAAGCTCCTACGGATTCCAATACTCACAGGACAGCGGGTTAGCAAGCCCCCTGGCCGTGA 8160 Query 8161 TGGGAAGCTCCTACGGATTCCAATACTCACAGGACAGCGGGTTGAATTCCTCCTGCCGTGA 8220 Query 8221 CGTGGAAGTCCAAGAAGACCCGATGGGGTTTCCCGAAGAGCCGGGTTTTTTGACTCCA 8280 Query 8221 CGTGGAAGTCCAAGAAGACCCGATGGGGTTCCTCTCGTATGATACCCCGCTGTTTTGACTCCA 8280 Query 8281 CAGTCACTGAGAAGACCCCGATGGGGTTCCTCTCTGTATGATACCCGCTGTTTTTGACTCCA 8280 Query 8281 CAGTCACTGAGAAGACCCCGATGGGGTTCCTCTTCTGTATGATACCCGCTGTTTTTGACTCCA 8280 Query 8281 CAGTCACTGAGAAGACCCCGATGGGGTTCCTCTATGATATCCCGCTGTATTTTGACTCCA 8280 Query 8281 CAGTCACTGAGAAGACCCCGATGGGGGTTCTCGTATGATACCCAGCGGTTTTTTGACCCA 8280 Query 8281 CAGTCACTGAGAAGACCCCGATGGGGGTCTCTATGATACCAGAGGGGCAATTTTACCAATGTTTGGACCTGGACC 8340	_			_
Query7801TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG7801Sbjet7801TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG7860Query7861AAGCTTGCAGCCCCACACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG7920Sbjet7861AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG7920Query7921AAGCTTGCCATGCCAGCACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAAG7920Query7921ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC7980Query7981TGGAAGACAGTGTAACACCAATAGACCATCAACTCCGTGTGGAAAGACCTTC7980Sbjet7981TGGAAGACAGTGTAACACCAATAGACCATCAATCCATCATGGCCAAGAACGAGGTTTTCTGCG8040Sbjet7981TGGAAGACAGTGTAACACCAATAGACCACTACCATCATGGCCAAGAACGAGGTTTTCTGCG8040Query8041TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG8100Query8041TTCAGCCTGAGAAAGGGGGGTCGTAAGCCAGCTGGTCTCATCGTGTTCCCCGACCTGGGCG8100Query8101TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTACGAAGCTCCCCCTGGCCGTGA8160Sbjct8101TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA8160Query8161TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACGGGGTTGAATTCCTCGTGCAAG8220Sbjct8161TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG8220Sbjct8161TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCCAAG8220Sbjct8221CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACCCA8280Sbjct8281CAGTC	_			
Sbjet 7801 TGCTCAAGGAGGTCAAAGCAGCGCCCAAATGTACATGCTATCGTAGAGG 7860  Query 7861 AAGCTTGCAGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATCGGGCAAAAG 7920  Sbjet 7861 AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG 7920  Query 7921 ACGTCCATGCCAGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG 7920  Sbjet 7921 ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC 7980  Sbjet 7921 ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAAGACCTTC 7980  Query 7981 TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGGTTTTCTGCG 8040  Sbjet 7981 TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGGTTTTCTGCG 8040  Query 8041 TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTAGTTCATCGTGTTCCCCGACCTGGGCG 8100  Sbjet 8041 TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG 8100  Query 8101 TGCGCGTGTGCAGAAAGGGGGGTCGTAAGCCAGCTGGTTAGCAAGCCTCGCGTGACACTGGGCG 8100  Query 8101 TGCGCGTGTGCGAGAAGAGGGGGTCGTAAGCCAGCTGGTTAGCAAGCTCCCCCTGGCCGTGA 8160  Sbjet 8101 TGCGCGTGTGCGAGAAGATGGCCCTGTACGACTGGTTTAGCAAGCTCCCCCTGGCCGTGA 8160  Query 8161 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGGCTCCCCCTGGCCGTGA 8160  Query 8161 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCTGGTTAGCAAGCTCCCCCTGGCCGTGA 8220  Query 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGTTCATCGTATGATACCCCGTGTTTAGACTCCA 8280  Query 8281 CAGTCACTGAGAGCGACATCCGAAGGGGGTTCCTGTTTTGACTCCA 8280  Query 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGGAGGAATTTACCAATGTTTGTGACCCA 8280  Query 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGGAGGAATTTACCAATGTTTGTGACCCA 8280  Query 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGGAGGAATTTACCAATGTTTGTGACCCA 8280  Query 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGGAGGCAATTTACCAATGTTTGTGACCCGACC 8280  Query 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGGGAGGCAATTTACCAATGTTTGTGACCCC 8280  Query 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGGGAGGCAATTTACCAATGTTTGTGACCCCA 8340	_			
Query7861AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG7920Sbjet7861AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG7920Query7921ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGCAAAAGCCTTC7980Sbjet7921ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC77980Query7981TGGAAGACAGTGTAACACCAATAGACCATCATCATCGGCCAAGAAACGAAGGTTTTCTGCG8040Sbjet7981TGGAAGACAGTGTAACACCAATAGACCATCATCATCGGCCAAGAACGAGGTTTCTGCG8040Query8041TTCAGCCTGAGAAAGGGGGGTCGTAAGCCACTCATCGTCCTCATCGTTCCCCGACCTGGGCG8100Sbjet8041TTCAGCCTGAGAAAGGGGGGTCGTAAGCCAGCTGGTCTCATCGTGTTCCCCGACCTGGGCG8100Query8101TGCGCGTGTGCGAGAAGAGGGGGCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA8160Sbjet8101TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA8160Query8161TGGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG8220Query8221CGTGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG8220Sbjet8221CGTGGAAGTCCAAGAAGACCCGATGGGGTTCCGTATGATAGAACCCGCTGTTTTTGACTCCA8280Query8281CAGTCACTGAGAAGACCCCGATGGGGTTCCGTATGATAGAACCCGCTGTTTTTGACTCCA8280Sbjet8281CAGTCACTGAGAGCGACATCCGTACGGAGGGGGAGAATTTACCAATGTTGTGACCTGGACC8340Sbjct8281CAGTCACTGAGAGCGACATCCGTACGGAGGGGCAATTTACCAATGTTGTGACCTGGACC8340Query8341CCCAAGCCCGCGGGGGCCACTCCATCGGAGGGGAGACATTCACATGTTGTGGGGGCCCTTTA8400<	_			
Sbjet 7861 AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG 7920  Query 7921 ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAAGACCTTC 7980  Sbjet 7921 ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC 7980  Query 7981 TGGAAGACAGTGTAACACCAATAGACCACTCATCATGGCCAAGAACGAGGTTTTCTGCG 8040  Sbjet 7981 TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG 8040  Query 8041 TTCAGCCTGAGAAGGGGGGTCGTAAGCCACTACTATGGCCAAGAACCAGGGTTTTCTGCG 8100  Sbjet 8041 TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG 8100  Query 8101 TGCGCGTGTGCGAGAAGGGGGGTTTAGCAAGCTCCCCCTGGCCG 8100  Query 8101 TGCGCGTGTGCGAGAAGAGGGGGTTTAGCAAGCTCCCCCTGGCCGTGA 8160  Query 8101 TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA 8160  Query 8161 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Sbjet 8161 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Query 8221 CGTGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Query 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCTATGATACCCAGCTGTTTTGACTCCA 8280  Query 8281 CAGTCACTGAGAAGAGCCCCGATGGGGTTCTCGTATGATACCCCGCTGTTTTGACTCCA 8280  Query 8281 CAGTCACTGAGAGCGACATCCGACGGAGGGGGTTGAATTCCCCGTCGACC 8340  Sbjet 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGGAGAATTTACCAATGTTTGACCCA 8280  Query 8281 CAGTCACTGAGAGCGACATCCGACGGAGGGGAGAATTTACCAATGTTTGGACCTGGACC 8340  Sbjet 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGAGAATTTACCAATGTTTGTGACCCG 8340  Query 8341 CCCAAAGCCGCGTGGACATCCGTACGGAGGGAGAATTTACCAATGTTTGTGACCCG 8340	_			
Query       7921       ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC       7980         Sbjct       7921       ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC       7980         Query       7981       TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG       8040         Sbjct       7981       TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG       8040         Query       8041       TTCAGCCTGAGAAAGGGGGTCGTAAGCCAGCTCGTCCTCCATCGTGTTCCCCGACCTGGGCG       8100         Sbjct       8041       TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGCG       8100         Query       8101       TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA       8160         Query       8101       TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA       8160         Query       8161       TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTGTGCAAG       8220         Sbjct       8161       TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG       8220         Query       8221       CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCCGCTGTTTTGACTCCA       8280         Sbjct       8281       CAGTCACTGAGAGCGACATCCGTACGGAGGGGAGCCAATTTACCAATGTTGTGACCTGGACC       8340         Sbjct       8281       CAGTCACTGAGAGCGACATCCGTACGGAGGGGCAATTTACCAATGTTGTGACCTGGACC       8340	_			
Sbjct 7921 ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC 7980  Query 7981 TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG 8040  Sbjct 7981 TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG 8040  Query 8041 TTCAGCCTGAGAAGGGGGGTCGTAAGCACCACTCATGGCCCAAGAACGAGGTTTTCTGCG 8040  Sbjct 8041 TTCAGCCTGAGAAGGGGGGTCGTAAGCACCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG 8100  Query 8101 TGCGCGTGTGCGAGAAGGGGGGTCGTAAGCACAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG 8100  Sbjct 8101 TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA 8160  Query 8161 TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA 8160  Query 8161 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Query 8221 CGTGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Query 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA 8280  Sbjct 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCCTATGATACCCGCTGTTTTGACTCCA 8280  Query 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGAGAGCAGCGGTTTTTTGACTCCA 8280  Query 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGAGACATTTACCAATGTTTGTGACCTGGACC 8340  Sbjct 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340  Query 8341 CCCCAAGCCCGCTGGGCCATCAGGAGAGGACATCTACCAATGTTTGGGGGCCCTCTTA 8400	_			
Query         7981         TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG         8040           Sbjct         7981         TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG         8040           Query         8041         TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG         8100           Sbjct         8041         TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG         8100           Query         8101         TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA         8160           Sbjct         8101         TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA         8160           Query         8161         TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA         8160           Query         8161         TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG         8220           Sbjct         8161         TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG         8220           Query         8221         CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA         8280           Sbjct         8221         CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA         8280           Query         8281         CAGTCACTGAGAGCGACATCCGTACGGAGGAGCAATTTACCAATGTTGTGACCTGGACC         8340           Query         8281         CAGTCACTGAG	_	-		
Sbjet 7981 TGGAAGACAGCAATAGACACCAATAGACCAGCAGAAAGAA	_	-		
Query       8041       TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG       8100         Sbjet       8041       TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG       8100         Query       8101       TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCTGGCCGTGA       8160         Sbjet       8101       TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCTGGCCGTGA       8160         Query       8161       TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG       8220         Sbjet       8161       TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG       8220         Query       8221       CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA       8280         Sbjet       8221       CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA       8280         Query       8281       CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC       8340         Sbjet       8281       CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC       8340         Query       8341       CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTA       8400	~ 1			
Sbjet 8041 TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG 8100  Query 8101 TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA 8160  Sbjet 8101 TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA 8160  Query 8161 TGCGCGTGTGCGAGAAGATGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA 8160  Query 8161 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Sbjet 8161 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Query 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGAATCCCCGCTGTTTTGACTCCA 8280  Sbjet 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA 8280  Query 8281 CAGTCACTGAGAGAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA 8280  Sbjet 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTCGACC 8340  Query 8341 CCCAAGCCCGCGTGGCCATCAGGAGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340  Query 8341 CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGGCTTTATGTTGGGGGCCCTCTTA 8400	2			
Query       8101       TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA       8160         Sbjct       8101       TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA       8160         Query       8161       TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG       8220         Sbjct       8161       TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG       8220         Query       8221       CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA       8280         Sbjct       8221       CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA       8280         Query       8281       CAGTCACTGAGAGCACCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA       8280         Sbjct       8281       CAGTCACTGAGAGCGACATCCGTACGGAGGAGGAGATTTACCAATGTTGTGACCTGGACC       8340         Sbjct       8281       CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC       8340         Query       8341       CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTA       8400	_			
Sbjct 8101 TGCGCGTGTGCGAGAAGATGCCCTGTACGACGTGGTTAGCAAGCTCCCCTGGCCGTGA 8160  Query 8161 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Sbjct 8161 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Query 8221 CGTGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Sbjct 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA 8280  Sbjct 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA 8280  Query 8281 CAGTCACTGAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA 8280  Sbjct 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340  Query 8341 CCCAAGCCCGCTGGCCATCAGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340  Query 8341 CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTA 8400	_			
Query8161TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG8220Sbjct8161TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG8220Query8221CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA8280Sbjct8221CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA8280Query8281CAGTCACTGAGAGCGACATCCGTACGGAGGGAGCAATTTACCAATGTTGTGACCTGGACC8340Sbjct8281CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC8340Query8341CCCAAGCCCGCGTGGCCATCAGGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA8400	_			
Sbjct 8161 TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG 8220  Query 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA 8280  Sbjct 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA 8280  Query 8281 CAGTCACTGAGAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA 8280  Sbjct 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340  Sbjct 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340  Query 8341 CCCAAGCCCGCGTGGCCATCAGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340	_	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query       8221       CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA       8280         Sbjct       8221       CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA       8280         Query       8281       CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC       8340         Sbjct       8281       CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC       8340         Query       8341       CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTA       8400         Query       8341       CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTA       8400	_			
Sbjct 8221 CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA 8280  Query 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340  Sbjct 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340  Query 8341 CCCAAGCCCGCGTGGCCATCAGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340	_			
Query 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340 Sbjct 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC 8340 Query 8341 CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA 8400	_	8221		
Sbjct 8281 CAGTCACTGAGAGCGACATCCGTACGGAGGGCAATTTACCAATGTTGTGACCTGGACC 8340  Query 8341 CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTA 8400	_	8281		8340
Query 8341 CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA 8400	_	8281		8340
	Query	8341		8400
	Sbjct	8341		8400

Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	ccaattcaagggggaaaactgcggctaccgcaggtgccgcgcgagcggcgtactgacaa	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	ĊŦĂĠĊŦĠŦĠĠŦĂĂĊĂĊĊĊŦĊĂĊŦŦĠĊŦĂĊĂŦĊĂĂĠĠĊĊĠĠĠĠĊĂĠĊĊŦĠŦĊĠĂĠĊĊĠĊĀĠ	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGcccccccggggaccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCGGGGACCCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct Query	8941 9001	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC  ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9000
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Ouerv	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121		9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181		9240
Query	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241		9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301		9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGttt	9420
Sbjct	9361		9420
Query	9421	ttttttttttttttttttttttttttttttttttttttt	9480
Sbjct	9421		9480
Query	9481	tttotttttocottctttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAA	9540
Sbjct	9481		9540

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Query
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         Sbjct
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                                                    9599
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Score = 1.773e+04 bits (9599),
                       Expect = 0.0
Identities = 9599/9599 (100%), Gaps = 0/9599 (0%)
Strand=Plus/Plus
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Query
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                                                    60
         TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
                                                    120
Query
     61
         Sbjct
     61
                                                    120
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                                                    180
Query
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         121
                                                    180
Sbjct
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Sbjct
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Query
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Sbjct
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Query
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         301
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Sbjct
Query
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     421
                                                    480
Sbjct
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                                                    540
         Sbjct
     481
                                                    540
Query
     541
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                                                    600
         541
                                                    600
Sbjct
     601
         GCAATGAGGGTTGCGGGTGGCCGGGATGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT
                                                    660
Query
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Sbjct
     601
                                                    660
     661
         GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA
                                                    720
Query
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                                                    720
     721
         CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG
                                                    780
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         721
                                                    780
Sbjct
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                                                    840
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         781
                                                    840
Sbjct
Query
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                                                    900
         GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG
     841
                                                    900
Sbjct
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         TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT
                                                    960
Query
         Sbjct
     901
         TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT
                                                    960
```

Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	ĠĊĊĊŦĂĂĊŦĊĠĂĠŦĂŦŦĠŦĠŦĂĊĠĂĠĠĊĠĠĊĊĠĂŦĠĊĊĂŦĊĊŦĠĊĂĊĂĊŦĊĊĠĠĠĠŦĠŦĠ	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	ŤĊĊĊŤŤĠĊĠŤŤĊĠĊĠĂĠĠĠŤĂĂĊĠĊĊŤĊĠĂĠĠŤĠŤŤĠĠĠŤĠĠĊĠĠŤĠĂĊĊĊĊĀĊĠĠŤĠĠ	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGCAAACTCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ĠĠĀĠĊĠĊĊĀĊĊĊŤĊŤĠĊŤĊĠĠĊĊĊŤĊŤĀĊĠŤĠĠĠĠĠĀĊĊŤĠŤĠĊĠĠĠŤĊŤĠŤĊŤ	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTĠĠTĊAAĊTĠTTTAĊĊTTĊĊĊĊĠĠĠĊĠĊĠĊĊAĊTĠĠAĊĠĊAAĠAĊŦĠĊAATŦĠŦŢ	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŢŖŢĊŢŖŢĠĊŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖ	1320
Query	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	ccctacgcagcgttggtagctcagctgctccggatcccacaagccatcatggaca	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	tgatcgctggtgctcactggggagtcctggcgggcatagcgtatttctccatggtggga	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTTTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	tcaccggggaaatgccggccgcaccacggctgggcttgttggtctccttacaccaggcg	1560
Query	1561	CCAAGCAGAACATCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	tgaattgcaatgaaagccttaacaccggctggttagcagggctcttctatcaacacaaat	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	tcaactcttcaggctgtcctgagaggttggccagctgccgacgccttaccgattttgccc	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	ggcactaccctccaagaccttgtggcattgtgcccgcaaagagcgtgtgtggcccggtat	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100

Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊAAAĊĀŢĊĊĠĠĀĀĠĊĊĀĊĀŢĀĊŢĊŢĠĠŢĠĊĠĠĊŢĊĊĠĠŢĊĊĊŢĠĠĀŢŢĀĊĀĊĊĊĀĠĠŢ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	gcatggtcgactacccgtataggctttggcactatccttgtaccatcaattacaccatat	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	rcaaagrcaggargtacgrggaggggrcgagcacaggcrggaagcggccrgcaacrgga	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	cgcggggcgaacgctgtgatctggaagacagggacaggtccgagctcagcccgttgctgc	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	rigit ce a ce	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	ĊAAĠĊATĊĠĊĠŦĊĊŦĠĠĠĊĊATŦAAĠŦĠĠĠAĠŦAĊĠŦĊĠŦŦĊŦĊŦĠĊŦŦĊĊŦĠĊŦŦĠ	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	ĊĀĠĀĊĠĊĠĊĠĊĠŤĊŤĠĊŤĊĊŤĠĊŤŤĠŤĠĠĀŤĠŤŤĀĊŤĊĀŤĀŤĊĊĊĀĀĠĊĠĠĀĠĠĊĠĠ	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŤŤŤĠĠŔĠŔŔĊĊŤĊĠŤŔŔŤŔĊŤĊŔŔŤĠĊŔĠĊŔŤĊĊĊŤĠĠĊĊĠĠĠŔĊĠĊŔĊĠĠŤĊŤŤĠŤĠŤ	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	ĊĊŦŦĊĊŦĊĠŦĠŦŦĊŦŦĊŦĠĊŦŦŦĠĊĠŦĠĠŦĂŦĊŦĠĂĂĠĠĠŦĀĠĠŦĠĠĠŦĠĊĊĊĠĠĂĠĊĠĠ	2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGcccacaTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC	2940
Query	2941	gggggggCGCGATCCCTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240

Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	rggccgrggctgrggaaccagrcgrctrctcccgaarggagaccaagctcarcacgrgg	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	ĠĠĠĊĀĠĀŤĀĊĊĠĊĠĊĠŤĠĊĠĠŤĠĀĊĀŤĊĀŤĊĀĀĊĠĠĊŤŤĠĊĊĊĠŤĊŤĊŤĠĊĊĊĠŤĀĠĠĠ	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	ĠĊĊĀĠĠĀĠĀŦĀĊŦĠĊŦŦĠĠĠĊĊĀĠĊĊĠĀĊĠĠĀĀŦĠĠŦĊŦĊĊĀĀĠĠĠĠŦĠĠĀĠĠŦŦĠĊŦĠĠ	3420
Query	3421	CGCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	ĊĠĊĊĊĂŢĊĂĊĠĠĊĠŢĂĊĠĊĊĊĀĠĊĀĠĀĊĠĀĠĀĠĠĊĊŢĊĊŢĀĠĠĠŢĠŢĀŢĀĀŢĊĀĊĊĀĠĊĊ	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	ĊĠĀĠĠĀĊĊĀŦĊĠĊĀŦĊĀĊĊĀĀĠĠĠŦĊĊŦĠŦĊĀŦĊĊĀĠĀŦĠŦĀĊĊĀĀŦĠŦĠĠĀĊĊĀĀĠ	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	accttgtgggctggcccgctcctcaaggttcccgctcattgacaccctgtacctgcgct	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	cctcggacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccgacgtg	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	atagcaggggtagcctgctttcgccccggcccatttcctacttgaaaggctcctcgggg	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	ĠŤĊĊĠĊŤĠŤŤĠŤĠĊĊĊĊĠĊĠĠĠĂĊĂĊĠĊĊĠŤĠĠĠĊĊŤĂŤŤĊĂĠĠĠĊĊĠĊĠĠŤĠŤĠĊĂĊĊĊ	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	ĠŤĠĠĀĠŤĠĠĊŤĂĀĀĠĊĠĠŤĠĠĀĊŤŤŤĂŤĊĊĊŤĠŤĠĠĀĠĀĀĊĊŤĀĠĠĠĀĊĀĀĊĊĀŤĠĀĠĀŤ	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AĞĞĞCTACAAĞĞTĞTTĞĞTĞCTCAACCCCTCTĞTTĞCTĞCAACĞCTĞĞĞCTTTĞĞTĞCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	acatgtccaaggcccatggggttgatcctaatatcaggaccggggtgagaacaattacca	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	ctgccacccatcacctaccacctaccgcaaccttccttcc	4260
Query	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	gaggtgcttatgacataataatttgtgacgagtgccactccacggatgccacatccatc	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380

Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381		4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	rigit cici de la rigida del rigida de la rigida del rigida de la rigida del rigida de la rigida del rigida de la rigida de	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query Sbjct	4921 4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980 4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981		5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041		5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101		5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
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Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	reget get et e	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	tcttgtccgggaagccggcaattatacctgacaggaggttctctaccaggagttcgatg	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520

Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	agttcaagcagaaggccctcggcctcctgcagaccgcgtcccgccatgcagaggttatca	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	ĊĊĊĊŢĠĊŢĠŢĊĊĂĠĂĊĊĂĂĊŢĠĠĊĂĠĂĂĂĊŢĊĠĂĠĠŢĊŢŢŢŢĠĠĠĊĠĂĂĠĊĀĊĀŢĠŢĠĠĀ	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120 6120
Sbjct	6061 6121	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6180
Query Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181		6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbict	6241		6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301		6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361		6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421		6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481		6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541		6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601		6660

			6500
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCCGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	aaccacctgtggtccatggctgcccgctaccacctccacggtcccctctgtgcctccgc	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	ctcggaaaaagcgtacggtgtcctcaccgaatcaaccctatctactgccttggccgagc	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	ttgccaccaaaagttttggcagctcctcaacttccggcattacggcgacaatacgacaa	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACTTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	catcctctgagcccgcccttctggctgcccccgactccgacgttgagtcctattctt	7500
Query	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA	7560
Sbjct	7501	ccatgcccccctggaggggagcctggggatccggatctcagcgacgggtcatggtcga	7560
Query	7561	CGGTCAGTAGTGGGCCGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621		7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800

_	<b>5004</b>		
Query	7801 7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860 7860
Sbjct			
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920 7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGcccccccggggacccccCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	accctacaaccccctcgcgagagccgcgtgggagacagcaagacacactccagtcaatt	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940

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Query
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        9001
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Sbjct
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         9480
Query
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                                                    9480
Sbjct
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Query
    9481
                                                    9540
         Sbjct
    9481
                                                    9540
    9541
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                                                   9599
Query
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    9541
                                                   9599
Sbjct
>dbj|DL479449.1|
            YEAST-BASED THERAPEUTIC FOR CHRONIC HEPATITIS C INFECTION
Length=9599
Score = 1.761e+04 bits (9536), Expect = 0.0 Identities = 9578/9599 (99%), Gaps = 0/9599 (0%)
Strand=Plus/Plus
    1
         GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
Query
         ĠĊĊŔĠĊĊĊĊŢĠŔŢĠĠĠĠĠĠĠŔĊŔĊŢĊŔĊŔŢĠŔŔŢĊŔĊŢĊĊĊŢĠŢĠŔĠŔŔĊŢŔŢĠ
Sbjct
    1
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                                                    120
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                                                    180
Query
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Sbjct
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                                                    300
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Query
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Sbjct

301

360

Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	ĊŢĊŖŖĠŖĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481 541	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA  AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	540 600
Query Sbict	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601		660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	cgtgcgcttcgccgacctcatggggtacataccgctcgtcggcgcccctcttggaggcg	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCTGCTCTCTTGCCTGACTG	900
Sbjct Query	841 901	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG  TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCCTTTACCATGTCACCAATGATT	900 960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1140
Sbjct	1141		1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCCAGGCGCCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261		1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	cccctacggcagcgttggtagctcagctgctccggatcccacaagccatcatggaca	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
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Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500

Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
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Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
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Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGACCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGGCCCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGACGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2100
Sbjct	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGTCCCTGGATTACACCCAGGT 	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401		2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461		2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		2640

Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641		2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	cctacgccttctacgggatgtggcctctcctcctgctctgctgctgccttgcctcagcgg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821 2881	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC  AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCC	2880 2940
Query Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCC	2940
Query	2941	aggggggaCCCCGATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCGC	3120
Sbjct	3061		3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	agatagccggaggtcattacgtgcaaatggccatcatcaagttaggggcgcttactggca	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTTTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300 3360
Query Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Ouerv	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGGCACCCTGCACCTGCGGCT	3720
Query Sbjct	3721 3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780 3780
שטופנ	J / Z I	OTDOMEDODODOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOT	5700

Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	atagcaggggtagcctgctttcgccccggcccatttcctacttgaaaggctcctcgggg	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	ĠŤĊĊĠĊŤĠŤŤĠŤĠĊĊĊĊĠĊĠĠĠĂĊĂĊĠĊĊĠŤĠĠĠĊĊŤĂŤŤĊĂĠĠĠĊĊĠĊĠĠŤĠŤĠĊĂĊĊĊ	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTCCTCG	4380
Sbjct Querv	4321 4381	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380 4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		4500
Ouerv	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561		4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681		4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801		4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861		4920

Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921		4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	ĠĠĊŦŦĊĊĊĠŦĠŦĠĊĊĂĠĠĂĊĊĂŦĊŦŦĠĂĂŦŦŦŦĠĠĠĂĠĠĊĠŦĊŦŦŦĂĊĠĠĠĊĊŦĊĂĊŦĊ	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct Query	5101 5161	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA  TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5160 5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221		5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281		5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	tcttgtccgggaagccggcaattatacctgacaggaggttctctaccaggagttcgatg	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query Sbjct	5581 5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640 5640
Ouerv	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641		5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701		5760
Query	5761	TCCTCTTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761		5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	ctgcctttgtgggcgctggcctagctggcgccatcggcagcgttggactggggaagg	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	ŤĊĊŤĊĠŤĠĠĂĊĂŤŤĊŤŤĠĊĂĠĠĠŤĂŤĠĠĊĠĊĠĠĠĠĊĠŤĠĠĊĠĠĠĠĠĠĊŤĊŤŤĠŤĀĠĊĂŤŤĊĂ	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060

Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	gcccggcgagggggagtgcaatggatgaaccggctaatagccttcgcctcccggggga	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	accatgiticcccacgcactacgtgccggagagcgatgcagccgcccgc	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TÁCTCÁGCÁGCCTCÁCTGTÁACCCÁGCTCCTGÁGGCGÁCTGCÁTCÁGTGGÁTÁÁGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACTTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200

0	7001	TOTOGOGOGOGOGO OTA CA A COCOCOCOTA CTA CA CA COTOGA A A A A COCTOA OTA CO	7260
Query Sbict	7201 7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260 7260
ے	7261		7320
Query Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321		7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACAA	7440
Sbjct	7381		7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441		7500
Query	7501	CCATG	7560
Sbjct	7501		7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561		7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	tgctcaaggaggtcaaagcagcggcgtcaaaagtgaaggctaacttgctatccgtagagg	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	aagcttgcagcctgacgcccacattcagccaaatccaagtttgctatgggcaaaag	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	acgtccgttgccatgccagaaaggccgtagcccacatcaactccgtgtggaaagaccttc	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	ŤĠĠŔŔĠŔĊŔĠŤĠŤŔŔĊŔĊĊŔŔŤŔĠŔĊŔĊŤŔĊĊŔŤĊŔŤĠĠĊĊŔŔĠŔŔĠĠĠŢŦŢŤĊŤĠĊĠ	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	ŤŤĊĂĠĊĊŤĠĂĠĂĂĠĠĠĠĠĠŤĊĠŤĂĂĠĊĊĂĠĊŤĊĠŤĊŤĊĂŤĊĠŤĠŤŤĊĊĊĊĠĂĊĊŤĠĠĠĊĠ	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	tgCgCgtgtgCgagaagatggCCCtgtaCgaCgtggttagCaagCtCCCCtggCCgtga	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	rigigaage rectacigatriceaaraere accadigacage giger rigiaarrice rectacige aac	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	cgtggaagtccaagaagaccccgatggggttctcgtatgatacccgctgttttgactcca	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340

Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	cccaagcccgcgtggccatcaagtccctcactgagaggctttatgttgggggccctctta	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	ctagctgtggtaacaccctcacttgctacatcaaggcccgggcagcctgtcgagccgcag	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	ĠĠĊŦĊĊĀĠĠĀĊŦĠĊĀĊĊĀŦĠĊŦĊĠŦĠŦĠĠĠĠĠĠĠĠĊŦŦĀĠŦĊĠŦŦĀŦĊŦĠŦĠĀĀĀĠŦĠ	8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	ĊĠĠĠĠĠĊĊaĠĠaĠĠaĊĠĊĠĠĊĠaaĊĊŢĠaĠaĠĊĊŢŢĊaĊĠĠaĠĠĊŢaŢĠaĊĊaĠĠŢaĊŢ	8640
Query	8641	CCGeecccceggggacceecaCAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	ccgccccccggggaccccacaaccagaatacgacttggagcttataacatcatgct	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	cctccaacgtgtcagtcgccacgacggcgctggaaagagggtctactaccttacccgtg	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACACACAC	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	cctggctaggcaacataatcatgtttgcccccacactgtgggcgaggatgatactgatga	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	cccatttctttagcgtcctcatagccagggatcagcttgaacaggctcttaactgtgaga	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	tctacggagcctgctactccatagaaccactggatctacctccaatcattcaaagactcc	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATĠĠĊĊŤĊĂĠĊĠĊĀŦŦŤŤĊĀĊŤĊĊĀĊĀĠŦŤĀĊŤĊŤĊĊĀĠĠŤĠĀĀĀŤĊĀĀŤĀĠĠĠŤĠĠĊĊĠ	9060
Query	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	ĊĂŢĠĊĊŢĊĀĠĀĀĀĀĊŢŢĠĠĠŢĊĊĊĠĊĊŢŢĠĊĠĀĠĊŢŢĠĠĀĠĀĊĀĊĊĠĠĠĊĊĊĠĠĀĠĊĠ	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACCCCAATAACGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	tigtccigittiggttcacgictiggctacagcgiggagacatttatcacagcgigtctcatig	9300
Query	9301	CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	cccgcccccccctcttcttcctactcctcctcctcctcctcctc	9360
Query	9361	TCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGttt	9420
Sbjct	9361	tcctcccaaccgatgaaggttggggtaaacactccggcctcttaagccatttcctgttt	9420
Query	9421	tttttttttttttttttttttttttttttttttttttt	9480
Sbjct	9421	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9480

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Query
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                                                     9540
    9541
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                                                    9599
Query
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                                                    9599
Sbjct
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>gb|GC661264.1|
Length=9599
Score = 1.761e+04 bits (9536), Expect = 0.0 Identities = 9578/9599 (99%), Gaps = 0/9599 (0%)
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                                                     60
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    1
                                                     60
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Query
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                                                     300
Sbjct
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                                                     360
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    361
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                                                     480
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     601
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                                                     720
Query
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Sbjct
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         721
                                                     780
Sbjct
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                                                     900
Query
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Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGCCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	ŤĠĂŤĊĠĊŤĠĠŤĠĊŤĊĂĊŤĠĠĠĠĀĠŤĊĊŤĠĠĊĠĠĠĊĂŤĂĠĊĠŤĂŤŤŤĊŤĊĊĂŤĠĠŤĠĠĠĠĀ	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	tcaccggggaaatgccggccgcaccacggctgggcttgttggtctccttacaccaggcg	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	tgaactgcaatgaaagccttaacaccggctggttagcagggctcttctatcagcacaaat	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	tcaactcttcaggctgtcctgagaggttgaccagctgccgacgccttaccgattttgccc	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGACGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040

Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	gcaaacatccggaagccacatactctcggtgcggctccggtccctggattacacccaggt	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	gcatggtcgactacccgtataggctttggcactatccttgtaccatcaattacaccatat	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	rcaaagrcaggargtacgrggaggggrcgagcacaggcrggaagcggccrgcaacrgga	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	cgcggggcgaacgctgtgatctggaagacaggtccgagctcagcccgttgctgc	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	rgrccaccacacagrggcaggrccrrccgrgrrcrrrcacgacccrgccagccrrgrcca	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	ccggcctcatccacctccacagaacattgtggacgtgcagtacttgtacggggtagggt	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	cagacgcgcgcgcgctctgcttgttgtggatgatgttactcatatcccaagcggaggcgg	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ctttggagaacctcgtaatactcaatgcagcatccctggccgggacgcacggtcttgtgt	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	ccttcctcgtgttcttctgctttgcgtggtatctgaagggtaggtgggtg	2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	cctacgccttctacgggatgtggcctctcctcctgctcctgctgctgccttgcctcagcgg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	catacgcactggacacggaggtggccgcgtcgtgtggcggcgttgttcttgtcgggttaa	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	rggcgcrgactcrgtcgccatattacaagcgctatatcagctggrgcatgrggtggcttc	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTGGGGGGTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCCCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180

Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	cctatgtgtataaccatctcacccctcttcgagactgggcgcacaacggcctgcgagatc	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	ŤĠĠĊĊĠŤĠĠĊŤĠŤĠĠĂĂĊĊĂĠŤĊĠŤŦŤĊŤĊĊĊĠĂĂŤĠĠĂĠĂĊĊĂĂĠĊŤĊĂŤĊĂĊĠŤĠĠĠ	3300
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Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCAGG	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACACCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGGCACCCTGCACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct Querv	3721 3781	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG  ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3780 3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Ouerv	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		3900
Ouerv	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbict	3901		3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141		4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261		4320

Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	ĊĊĂĊŢĠĊŢĂĊĊĊŢĊĊĠĠĠĊŢĊĊĠŢĊĂĊŢĠŢĠŢĊĊĊĂŢĊĊŢĂĂĊĂŢĊĠĀĠĠĀĠĠŢŢĠĊŢĊ	4440
Query	4441	TGTCCACCACCGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501 4561	GGGGAAGACATCTCATCTTCTGCCATTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4560 4620
Query Sbjct	4561	TIGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681		4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACCGGCAGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	ĠĊĊĊĊĊĊĠĠĊĂŦĠŦŦĊĠĂĊŦĊĠŦĊĊĠĊĊĠĠĠĠĠĠĠĠĊŦĠŦĠĊŦ	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct Ouerv	4981 5041	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC  ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5040 5100
Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101		5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161		5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460

Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	agatggaagagtgctctcagcacttaccgtacatcgagcaagggatgatgctcgctgagc	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	agttcaagcagaaggccctcggcctcctgcagaccgcgtcccgccatgcagaggttatca	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	atttcatcagtgggatacaatacttggcgggcctgtcaacgctgcctggtaaccccgca	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	tigcticatigatggctittacagctgccgtcaccagcccactaaccactggccaaaccc	5760
Query	5761	TCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGGGGGGGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	ĊŦĠĊĊŦŦŦĠŦĠĠĠĊĠĊŦĠĠĊĊŦĂĠĊŦĠĠĊĠĊĊĠĊĊĂŦĊĠĠĊĂĠĊĠŦŦĠĠĀĊŦĠĠĠĠĀĀĠĠ	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	tcctcgtggacattcttgcagggtatggcgcgggcgtggcgggagctcttgtagcattca	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	agatcatgagcggtgaggtcccctccacggaggacctggtcaatctgctgcccgccatcc	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	tötögöctiggagöcöttgtagtöggtgtgtötgögöagcaataötgögöcgöcaögttg	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	ĠĊĊĊĠĠĠĊĠĀĠĠĠĠĠĊĀĠŦĠĊĀĀŦĠĠĀŦĠĀĀĊĊĠĠĊŦĀĀŦĀĠĊĊŦĊĊĠĊĠĠĠĠĠĀ	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TÁCTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	ÁĞTĞTÂCCÂCTCCÂTĞCTCCĞĞTTCCTĞĞCTÂAĞĞĞACATCTĞĞĞACTĞĞATATĞCĞAĞĞ	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TĠĊŢĠĂĠĊĠĂĊŢŢŢĀĀĠĂĊĊŢĠĠĊŢĠĀĀĀĠĊĊĀĠĊŢĊĀŢĠĊĊĀĊĀĀĊŢĠĊĊŢĠĠĠĀŢŢĊ	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	ĊĊŦŦŦĠŦĠŦĊĊŦĠĊĊĀĠĊĠĊĠĠĠŦĂŦĀĠĠĠĠĠĠŦĊŦĠĠĊĠĀĠĠĀĠĠĊĠĊĀŦŦĀŦĠĊĀĊĀ	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	ctcgctgccactgtggagctgagatcactggacatgtcaaaaaacgggacgatgaggatcg	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	tcggtcctaggacttgcaggaacatgtggagtggacgttccccattaacgcctacacca	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600

Sbjet         6601         CadadaATACGTGGGGGATTACGCTTACGTTACGGTATGGTATGACTA         666           Ouery         661         CTGGCAATCTTAAATGCCCGTGCCGAGATCCCATGCCCGAATTTTTCACAGAATTGGACG         6720           Sbjet         6661         CTGGCAATCTTAAATGCCCGTGCCCGAGATCCATGCGCGAATTTTTCACAGAATTGGACG         6720           Sbjet         6721         GGGTGGCCCCTACACAGAGTTTGGCACCCCTTTGCAGAGCCTTCACTGCGGGGAGGTTACTA         6780           Sbjet         6731         GGGTGGCCCTTACACAGTTTGCGCCCCCTTTGCAGAGCCTTCACTGGGGAGGGTACTACTAGTTGCGCCCCTTTGCAGAGCCCGAACGGGGGGGG	Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sejet         6661         CTGGGATCTTTAATACCCCCCCTCGCAGATTTTTCAGAATTTGAGG         6720           Query         6721         GGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGTATTCAT         6780           Sbjet         6721         GGGTGCGCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGGGTATCAT         6780           Guery         6781         CACAGATAGCATCCACCAGGTTACCCGGTGGGGTGCGCAATTACCTTGCGAGCCCGAACCGG         6840           Spjet         6781         CACAGATAGCACTCCACCAGTACCCGGTGGGTTGCGAATTACCTTGCAGCCCGAACCGG         6840           Spjet         6841         ACGTGCCGTTGACGTCCATCCTCACTCCTCCCATATACACACAGAGGCCGCC         6940           Query         6841         ACGTGCCGTGTTGACGTCCATGCTCACTCTCTCATATACACACAGAGGCCGCCC         6900           Guery         6901         GGACAAGGTTGACGTCCATGCTCTCTTTGATGCACCTCTTGACGCCCCTTTGCACGCCACTTTGCACCGCCAACATCACCACGAGGCCGCACACATCACCACGGCTGACCTCTTGCACGCCAACATTGCACCCCCTTTTGCACGCCCAACATCACCACGGTTGAGTCAC         7020           Guery         7021         TAGAGGCTAACCTCCTGTGCAGCCAGGACATGCACCACCACCACCACCACCACCACGATCACCACCGGTTGAGTCAC         7080           Spjet         7081         AGAACAAACTGGTATCTCCTGTGCACGCAGGACATGCACCACCACCACCACCACCACCACCACCACCACCACCAC	Sbjct	6601		6660
Query         6721         GGGTGCGCTACACAGGTTTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGAGTATCAT         6780           Sbjet         6721         GGGTGCGCCTACACAGGGTTTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGAGTATCAT         6780           Query         6781         TCAGAGTTAGCACTCCAGGATTACCCGGTGCGGTCGCAATTACCTTGCGGGCCGAACCGG         6840           Bbjet         6781         TCAGAGTTAGCACTCCAGGATTACCCGGTGCGCAATTACCTTGCGGAGCCGCAACCGG         6840           Query         6841         ACGTGACCGTGTTGACCTCATGCTCACTGATCCCTCCCATATACACACAGAGCGGCCG         6900           Sbjet         6841         ACGTGACCGTGTTGACGTCCATGCTCACTGATCCCTCCATATACACACAGAGCGGCCG         6900           Guery         6901         GGGGAGGTTGACCGAGGGTCACCCAGCCCTTCTATACCGAGCTCTCAGCTCACCCGCTACCCAGGTTGTGAGTCAC         7020           Bbjet         6901         GGGGGAGGTTGACCCAGCCTTTGTATGCACCGCACTCTCCAGGCTTGACCCAGGTTCACCCAGGGTTCACCCAGGGTTGAGTCAC         7020           Cuery         7021         TAGAGGCTAACCTCTGTGGAGGCAGACTTGCACCCAGGCTACCACCAGGGTTGAGTCAC         7020           Bbjet         7021         TAGAGGCTAACCTCTGTGGAGGCAGAGATTGGCGCAACACCACCAGGGTTGAGCCAGG         7080           Bbjet         7081         TAGAGGCTAACCTCTGTGGAGCAGAGTTGGGCGCACACCACCACCACCAGGGCTTGAGCCAGGGCTTGAGCCAGGGCTTACACCAGGGTTACACCAGGGTTACACCAGGGTTACACCAGGGTCAGCCAGGGCCTAGCAGGAATTCTGCAGGGAACTTCTGAGCGAGACTTACACCAGGGGACTACCAGGGGCCCAGGACTACCACCAGGGACTACCAGGGGAACTTCCGGGGAACTTCTGAGGGAACTTCTGGGAGACTACCAGGGGAGATACAGCAGGGGACTACCAGGAATTCTCGAGGAAC	Query	6661		6720
Sbjet         6721         GGGTGCGCCTACACAGGTTTGGCGCCCTTGCTAGGGGGGGG	Sbjct	6661	ĊŤĠĂĊĂĂŤĊŤŤĂĂĂŤĠĊĊĊĠŤĠĊĊĂĠĂŤĊĊĊĂŤĊĠĊĊĊĠĂĂŤŤŤŤĊĂĊĂĠĂĂŤŤĠĠĂĊĠ	6720
Query         6781         TCAGAGTAGGACTCCACGAGTACCCGGTGGGTCGCAATTACCTTGCGAGCCCGAACCGG         6840           Sbjet         6781         TCAGAGTAGGACTCCACGAGTACCCGGTGGGTCGCAATTACCTTGCGAGCCCGAACCGG         6840           Query         6841         ACGTAGCCGTGTTGACGTCCACTCACTCATTACCTTCCCTCATATAACAGCAGAGGCGCGC         6900           Sbjet         6841         ACGTAGCCGTGTTGACGTCCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT         6960           Cuery         6901         GGAGAAGGTTGCCGGGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTCT         6960           Sbjet         6961         CGGTCCATCTCTCAAGGCAACTTGCACCCCCTTATGGCCAGCTCCTCGGCTAGCCCGAGCTCA         7020           Sbjet         6961         CGGTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCCTGAGCGCGAGCTCA         7020           Cuery         7021         TAGAGGCTAACCTCCTGGAGCAGGAGTGGGCGAACCTACCACGAGGTTGAGCTCAG         7080           Sbjet         7021         TAGAGGCTAACCTCCTGGAGCAGGAGTGGGCGAACCTACCACGAGGTTGAGCTCAG         7080           Sbjet         7081         AGAACAAAGTGGTATCTTGGAGCAGGAGTAGGGCGAACATCACCACGGGTTGAGCTGAG         7080           Sbjet         7141         AGGTCTCCGTACCTGCAGAAATTCTGGCACCTGGAGAGTGTGGAGAAGTAGACCCCCGCGGCCTGCCCG         7200           Cuery         7201         TGTGGCCGGGCCGGACTACAACCCCCCCGTTGGTGGCACAAGAGGAGGAGTAGACCCTGCCCG         7220           Query         7261         AACCACCA	Query	6721		6780
Sbjet         7881         TCAGAGCAGGATCACCAGGATCACCGATTACCTTCCAGCCCGACCGG         6840           Query         6841         ACGTAGCCGTGTTGACGTCCATGATCCCTCCATATAACAGCAGAGGCGCCG         6900           Sbjet         6841         ACGTAGCCGTGTTGACGTCCATCGATCCTCCCATATAACAGCAGAGGCGCCG         6900           Query         6901         GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAACCTCCTGGCTAGCCAGCTCT         6960           Sbjet         6901         GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCACCTCCTGGCTAGCCAGCTCT         7020           Sbjet         6961         CCGCTCCATCTCTCAAGCCAACTTGCACCGCCAACCATGGCCACCCCTCGGCTAGCCAGCTCA         7020           Sbjet         7021         TAGAGGCTAACCTCCTGTGGAGGCAGGAGTGGGCGGCAACATCACCAGGGTTGAGTCAG         7080           Sbjet         7021         TAGAGGCTAACCTCCTGTGGAGGCAGGAGAGTGGGCGGCAACATCACCAGGGTTGAGTCAG         7080           Query         7021         TAGAGGCTAACCTCCTGTGGAGGCAGGAGAGTGGGCGGCAACATCACCAGGGTGAGCAGG         7080           Sbjet         7021         TAGAGGCTAACTCCTGTGGAGTCCTTTCGATCCCTTGTGTGACCAGGGGAGATGAGCGG         7080           Query         7141         AGGTCTCGTACTGGACTCCTTGCATCCCTTGGCAGAGTTGGCAGGAGGAGTGAGCGG         7200           Query         7141         AGGTCTCGTACCTGCAGAATTCTGGCTACCGGACCTTCGGACATTCGGCTGCCTCCCCCC         7200           Query         7261         ACCACCTGTGGTCCATGGATGCTCCACCAGATCACACCTCCA	Sbjct	6721		
Query         8841         ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCCCATATAACAGCAGGCGGCGG         690           Sbjet         6841         ACGTAGCCGTGTTGACGTCCATGATCCACTGATCCTCCCATATAACAGCAGAGGGGCGGGGGGG         690           Query         6901         GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCACCTCCTCGGCTAGCCAGCTGT         696           Sbjet         6901         GGAGAAGGTTGGCCAGAGGGTCACCCCCTTCTATGGCCACCTCCTCGGCTAGCCAGCTGT         696           Query         6961         CCGCTCCATCTCTCAAGGCAACTTGCACCCCCTTCTATGGCCACCTCCTGAGCCGAGCTCA         7020           Sbjet         6961         CCGCTCCATCTCTCAAGGCAGGAGGAGATGGCCGCAACATGACTCCCTGAGCCGAGCTCA         7020           Sbjet         7021         TAGAGGCTAACCTCCTTGAGGCAGGAGGAGTAGGCGGGCCCTCACCCG         7080           Sbjet         7021         TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCGGGCAACATCACCAGGGTTGAGTCAG         7080           Query         7081         AGAACAAAGTGGTGATTCTGGACTCCTTCCATCCGCTTGTGGCAGAGAGGAGGATGAGCGGG         7140           Sbjet         7081         AGAACAAAGTGGTGATTCTGGACTCTTCGATCCGCTTGTGGCAGAGTTCCCCCGGCTTCCCCC         7200           Sbjet         7141         AGGTCTCCGTACCTCCAGAAATTCTTCGGCAAATTCTCGCCGAGCCTTCCCCC         7200           Query         7201         TCTGGGCCGCCCCGACTACAACCCCCCCCCTTAGTAGACCTCTCCAGGTGCCTCCCCCCCC	-			
Sbjet         6841         AGGRAGGCGTGTAGGCGTCATGGTCATGGTCATGGTCATGGTCAGGGTGGCGGGGGGGG	-			
Query         6901         GGAGAGAGGTTGGGGAGAGGGTCACCCCCTTCTATGGCCAGCTCTGGGTAGCCAGCTGT         696           Sbjet         6901         GGAGAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCTGGCTAGCCCAGCTGT         696           Query         6961         CCGGTCCATCTCTAAGGCAACTTGCACCGCCAACCATTGACTCCCTGACGCCGAGCTCA         7020           Sbjet         6961         CCGGTCCATCTCTCAAGGCAACTTGCACCGCAACCATGACTCCCTGGACGCCGAGCTCA         7020           Query         7021         TAGAGGCTAACCTCCTGTGGAGGCAGGAGAGGGGGGCAACATCACCAGGGTTGAGTCAG         7080           Sbjet         7021         TAGAGGCTAACCTCCTGTGGAGGCAGGAGAGGGGGCGCAACCACCAGGGTTGAGTCAG         7080           Sbjet         7021         TAGAGGCTAACCTCCTGTGGAGGAGGAGGGGGGCAACATCACCAGGGTTGAGTCAG         7080           Query         7081         AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	-			
Sbjet         6901         GGAGAGGGTTGGGAGAGGGTACCCCCTTTATGGCCCGTTGCCATGCCAGCTGC         6960           Query         6961         CCGCTCCATCTCTCAAGGCAACTTGCACCCGCAACCATGACTCCCTGACGCCGAGCTCA         7020           Sbjet         6961         CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA         7020           Query         7021         TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCCGCAACCATCACCACGGGTTGAGTCAG         7080           Sbjet         7021         TAGAGGCTAACCTCCTGTGGAGGCAGGAGAATGGCGGCGCAACATCACCAGGGTTGAGTCAG         7080           Query         7081         AGAACCAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCCAGAGAGGATGAGCGGG         7140           Sbjet         7081         AGAACCAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCCAGAGAGGATGAGCGGG         7140           Query         7141         AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTTCGGCCAGGAGATTCCCCCGGGCCCTGCCCC         7200           Sbjet         7141         AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTTCCGCCGGGCCCTGCCCC         7200           Query         7201         TCTGGGCCGGCCGGACTACAACCCCCCGTAGTAGAAGACTTCGCCGGGCCCTGCCCCC         7200           Sbjet         7201         TCTGGGCCGGCCGGACTACAACCCCCCGTAGTAGAAGACGTGGAAAAAGCCTGACTCACCTACCT	-			
Ouery         6961         CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA         7020           Sbjet         6961         CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCA         7020           Query         7021         TAGAGGCTAACCTCCTGTGGAGGCAGCAGACGATGACTCCCCTGACGCCGAGCTCA         7080           Sbjet         7021         TAGAGGCTAACCTCCTGTGGAGGCAGAGATGGCCGCAACATCACCAGGGTTGAGTCAG         7080           Query         7081         AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCACAGGAGGAGGAGGAGGAGGGGG         7140           Sbjet         7141         AGAGCTACACTGCACAAAATTCTGGACTCCTTTGGATCTCGCAGGAGATTCGCCGGGCCCTGCCCC         7200           Sbjet         7141         AGGTCTCCGTACCTGCAGAAATTCTGGGGAAGTTCGGCAGAGATTCGCCGGGCCCTGCCCCC         7200           Sbjet         7201         TCTGGGCCGGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACC         7200           Sbjet         7201         TCTGGGCCGGGCCGGACTACAACCCCCCCCCTAGTAGAGACGTGGAAAAAGCCTGACTACC         7200           Query         7261         AACCACCTGTGGTCCATGCGCCCCCCCCCCTAGTAGCACCTCCACGGTCCCCTCCTGTGCCCCCCC         7300           Sbjet         721         CTCGGAAAAGCGTACGGTGGTCCATCCACCTCCACGTTCCACCTCCTGTGCCCCCCCC	-			
Sbjet 6961 CCGCTCCATCTCAAGGCAACTGCACCGCAACCATGACTCCCCTGAGCCGAGCTCA 7020 Query 7021 TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGAACATCACCAGGGTTGAATCAG 7080 Sbjet 7021 TAGAGGCTAACCTCCTGTGGAGGCAGGAGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG 7080 Query 7081 AGAACAAAGTGGTGATTCTGGACTCCTTTGGATCGCGAGAGAGA	-			
Query         7021         TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG         7080           Sbjet         7021         TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG         7080           Query         7081         AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG	-			
Sbjet 7021 TAGAGGCTAACCTCTGTGAGGCAGGATGAGCCACACATCCAGGGTTGAGTCAG Query 7081 AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG 7140 Sbjet 7081 AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG 7140 Query 7141 AGGTCTCCGTACCTGCAGAAAATTCTGCGAAAGTTCTGCGAAGTCGCCCGGGCCCTGCCCG 7200 Sbjet 7141 AGGTCTCCGTACCTGCAGAAAATTCTGCGGAAGTTCGCCGGGCCCTGCCCG 7200 Query 7201 TCTGGGCGGGCCGGACTACAACCCCCCGCTAGTAGAGACCTGACCAGCGCCTGCCCG 7200 Sbjet 7201 TCTGGGCGGGGCCGGACTACAACCCCCCGCTAGTAGAGACCGTGGCAAAAAGCCTAACAG 7260 Query 7261 AACCACCTGTGGTCCATGGCTGCCCGCCGTAGTAGAGACCTGGCAGAAAAAGCCTGACTAGC 7260 Sbjet 7261 AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCGC 7320 Query 7321 CTCGGAAAAAGCGTACGGTGCCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCCG 7320 Query 7321 CTCGGAAAAAGCGTACGGTGGCTCCACCGAATCAACCCTTACTGCCTTGGCCTGCC 7380 Sbjet 7321 CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTTACTGCCTTGGCCTGAC 7380 Query 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCACCGAATCAACCCTTACTGCCTTGGCCGACC 7380 Query 741 CATCCTCTGAGCCGCGCTCCTCACCGAATCAACCCTTACTGCCTTGGCCGACC 7380 Query 7501 CCGGAAAAAGCTTTCGCAGCTGCTCAACTTCCGGCATTACGGCGGACAATACGACAA 7440 Query 7501 CCATGCCCCCCGTGGCTGCCCCCTCTGGGCCTACCACCTCTACTGACTTACTT	-			
Query7081AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG7140Sbjet7081AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG7140Query7141AGGTCTCCGTACCTGCAGAAATTCTGCGAAGTTCTGCGAAGTTCGCCCGGGCCCTGCCCG7200Sbjet7141AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTTCGCCGGGCCTGCCCG7200Query7201TCTGGGCGCGCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG7260Sbjet7201TCTGGGCGCGGCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG7260Query7261AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCCC7320Sbjet7261AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCCC7320Sbjet7321CTCGGAAAAAGCGTACGGTGGTCCCCTACCACCTCCACGGTCCCCTCTGTGCCTCCCC7380Sbjet7321CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACTTCTACTGCCTTGGCCGAGC7380Sbjet7381TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACCAGGTCACTCTCTGCCTGAGC7380Sbjet7381TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA7440Query7441CATCCTCTGAGCCCGCCCCTTCTGGCTGGCGCACCTCGACTTCAGCGACAATACGACAA740Sbjet7501CCATGCCCCCCCCTTCTGGCTGGCCCCCCCCGACTCCGACTTGAGTCCTATTCTT7500Sbjet7501CCATGCCCCCCCCTTCTGGCTGGCGGGATCCGGACTCCGACGGTCAATGCTCAA7500Sbjet7501CCATGCCCCCCCCTTCTGGCTGGCGGGACCTGGGATCCAGCGGTCAATGCTCAA7620Sbjet7501CCATGCCCCCCCTTCTGGCGGACCTGGGATCCTGGATCTCAACGCACGGACCTTGAATGCTCTATTCTTT7500Sbjet7501CCATGCCCCCCCCTG	-	-		
Sbjet7081ÄGAÄCAAAĞTGĞTGATTCTĞGACTCCTTCĞATCCĞCTTĞTĞCĞAGGAGGAGGAGGATGÄGCĞGĞ7140Query7141AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG7200Sbjet7141AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG7200Query7201TCTGGGCGGCGGCCGGACTACAACCCCCCGGTAGTAGAGAGATCGCCGGGCCTGCCCG7260Sbjet7201TCTGGGCGCGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG7260Query7261AACCACCTGTGGTCCATGGCTGCCCGCTAGTAGAGACCTGCACGGTCCCTCCTGTGCCTCCGC7320Sbjet7261AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC7320Query7321CTGGGAAAAAGCGTACGGTGCCCCGCTACCACCGTCCACGGTCCCCTCTGTGCCTCCGC7380Query7321CTGGGAAAAAGCGTACGGTGGTCCTCACCGAACTACCACCTACCT	-	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjet 7141 AGGTCTCCGTACCTGCAGAAATCTGCGGAAGTCTCGGAGAATCGCCCGGGCCCTGCCCG 7200 Query 7201 TCTGGGCGGGCCGGACTACAACCCCCCGCTAGTAGAAAAAGCCTGACTACG 7260 Sbjet 7201 TCTGGGCGGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG 7260 Query 7261 AACCACCTGTGGTCCATGGCTGCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG 7260 Sbjet 7261 AACCACCTGTGGTCCATGGCTGCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG 7260 Query 7321 CTCGGAAAAAGCGTACGGTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC 7320 Sbjet 7321 CTCGGAAAAAGCGTACGGTGGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCGC 7320 Query 7321 CTCGGAAAAAGCGTACGGTGGCTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC 7380 Query 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTAACTTCCGGCATTACTGCCTTGGCCGAGC 7380 Sbjet 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGGACAATACGACA 7440 Query 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGACCTCCAACTTCCGGCAATTACGACAA 7440 Query 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCACTTCTAGTTGATTCTT 7500 Sbjet 7501 CCATGCCCCGCCCCTTCTGGCTGGCCCCCCCCACCCCAACGGTTGAGTCCTATTCTT 7500 Query 7501 CCATGCCCCCCCTTCTGGCTGGCCCCCCCCACCTCCAGCGGTCATGGTCGA 7660 Sbjet 7561 CGGTCAGTAGTGGGGGGGAGCCTGGGGATCCGGATCCAACTCTCAGCGACGGTCATGCTGA 7620 Query 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATCCGAACTCAACGCACTGA 7680 Sbjet 7621 CAGGCGCACTCGTCACCCGGCGAAGAAAAAACTGCCCATCAACGCACTGA 7680 Query 7621 CAGGCGCACTCGTCACCCGTGCGGGAAGAACAAAAAACTGCCCATCAACGCACTGA 7680 Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGGGAAGAACAAAAAACTGCCCATCAACGCACTGA 7680  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAAACTGCCCATCAACGCACTGA 7680  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAAACTGCCCATCAACGCACTGA 7680	Sbjct	7081		7140
Sbjet7141ÄGGTČTCCGTÄCCTGCÄGÄÄÄÄTTCTGCGGÄÄGTTCTGGGÄGÄTTCGCCCGGGCCCTGCCCG7200Query7201TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG7260Sbjet7201TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG7260Query7261AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC7320Sbjet7261AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC7320Query7321CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC7380Sbjet7321CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC7380Sbjet7321TTGCCACCAAAAGTTTTGGCAGCTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC7380Query7381TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA7440Query7441CATCCTCTGAGCCCGCCCTTCTGGCTGGCCGCACTTACGGGCGACAATACGACAA7440Query7441CATCCTCTGAGCCCGCCCCTTCTGGCTGGCCGCACTTCGACTTGAGTCCTATTCTT7500Query7501CCATGCCCCCCTTCTGGCTGGCTGGCCCCCCCGACTCCAGACTTGAGTCCTATTCTT7500Sbjet7501CCATGCCCCCCCTTCTGGCTGGCGGGTCCTGGATCTCCAGCGACGGGTCATGGTCGA7560Sbjet7561CGGTCAGTAGTGGGGGCCGACACGGAAGTGCTGGTGCTGCTCAATGTCTTATTCCTGGA7620Query7621CAGGCGCACTCGTCACCCCGTGCGCTGGGGATCCTGATGCTCAATGTCTTATTCCTGGA7680Sbjet7621CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAAACTGCCCATCAACGCACTGA7680Sbjet7621CAGGCGCACTCGTCACCCCGTGCGCTGCGGGAAGAACAAAAAACTGCCCATCAACGCACTGA7680Query7621CAGGCGC	Query	7141		7200
Sbjet 7201 TCTGGGCGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG 7260  Query 7261 AACCACCTGTGGTCCATGGCTGCCCGCTACCACGTCCCCCCCTGTGCCTCCGC 7320  Sbjet 7261 AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC 7320  Query 7321 CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCCTATCTACTGCCTTGGCCGAGC 7380  Sbjet 7321 CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC 7380  Query 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGAACAATACGACAA 7440  Sbjet 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACCAATACGACAA 7440  Query 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCCGAGCATTACGGCGCAATAACGACAA 7440  Query 7501 CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCGACTTCAGCTGACTCTATCTT 7500  Query 7501 CCATGCCCCCCCTTCTGGCTGCCCCCCCCGACTTCAGCGACGGTCATTCTT 7500  Sbjet 7501 CCATGCCCCCCCTTCTGGCTGCCCCCCCCGACTTCAGCGACGGTCATGTCGA 7560  Sbjet 7501 CCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCGAACTCCTAGCGACGGTCATGCTCA  Query 7561 CGGTCAGTAGTGGGGCCGCCCCTTCTGGCTGCCCCCCCCGACTTCAGCGACGGTCATGTCGA 7620  Query 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATCCTGATCCTAGCGACGGGTCATGCTGA 7620  Query 7621 CAGGCGCACTCGTCACCCGGGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAAACTGCCCATCAACGCACTGA 7680	Sbjct	7141		7200
Sbjet 7201 TCTGGGGGGGGGGGACTACAACCCCCGGCTAGTAGAGACGTGGAAAAAAGCCTGACTACGG 7260  Query 7261 AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCCGC 7320  Sbjet 7261 AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC 7320  Query 7321 CTCGGAAAAAGCGTACCGTGGTCCACCGAATCAACCCTATCTACTGCCTTGGCCGACG 7380  Sbjet 7321 CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGACG 7380  Query 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440  Sbjet 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440  Query 7441 CATCCTCTGAGCCCCCCTTCTGGCTGGCCGACATTACGGGCGACAATACGACAA 7440  Sbjet 7441 CATCCTCTGAGCCCCCCCTTCTGGCTGGCCGACGTTGAGTCCTATTCTT 7500  Query 7501 CCATGCCCCCCTTCTGGCTGGCTGCCCCCCCGACTCCGACGTTGAGTCCTATTCTT 7500  Sbjet 7501 CCATGCCCCCCTTGGAGGGGGAACCCGAATCCGACGGTCAACGACAA 7660  Sbjet 7501 CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGACGGTTGAGTCCTATTCTT 7500  Query 7501 CCATGCCCCCCTGGAGGGGGGAGCCTGGGGATCCCAACGCACTGA 7660  Sbjet 7501 CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCCAACGCACTGA 7660  Sbjet 7501 CCATGCCCCCCTGGAGGGGGAACCTGGAACAACAAAACTCCCAATGTCTTATTCCTGGA 7660  Sbjet 7501 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGGTTGCTCAATGTCTTATTCCTGGA 7660  Sbjet 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCTGTCTCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGACTGA 7680  Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680	Query	7201		7260
Sbjet 7261 AACCACCTGTGGTCCATGGCTGCCCGCTACCACGTCCCCTCTGTGCCTCCGC 7320  Query 7321 CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTGGCCGAGC 7380  Sbjet 7321 CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTGGCCGAGC 7380  Query 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC 7380  Query 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCACCTACTTACTGCCTTGCCTGAGCCAACAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACCGGCGACAATACGACAA 7440  Sbjet 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440  Query 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCGCGCGACTTCCGGCGACAATACGACAA 7440  Sbjet 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCGCCCGACTTCAGAGTCCTATTCTT 7500  Query 7501 CCATGCCCCCGCCCCTTCTGGCTGGCCCCCCCGACTCCGACGTTGAGTCCTATTCTT 7500  Sbjet 7501 CCATGCCCCCCTTGGAGGGGGAGCCTGGGGATCCGACGTTCAGCGACGGTCATGGTCGA 7560  Query 7561 CGGTCAGTAGTGGGGGCGACACGGAAGATCCGGATCTCAGCGACGGTCATGGTCGA 7620  Sbjet 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGCGTGTGCTGCTCCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCGGAGGAGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACCCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680	Sbjct	7201		7260
Sbjet 7261 ÅÅČCÄČCŤĠŤĠĞŤĊCĂŤĠĊŤĠČČĠĞŤÄČČÄČČŤČČÄČĠĞŤČČČŤČČŤĠŤĠČČŤČĆĠĆ 7320  Query 7321 CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC 7380  Bjet 7321 CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC 7380  Query 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACTGGCCGAGC 7380  Sbjet 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440  Query 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCCGACTTCCGGCATTACGGGCGACAATACGACAA 7440  Sbjet 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCGCACCGACTTCAGGCCGACCATACGACAA 7550  Query 7501 CCATGCCCCCCTTCTGGCTGGCCCCCCCCGACTCCGACGTTGAGTCCTATTCTT 7500  Query 7501 CCATGCCCCCCTGGAGGGGGGAGCCTGGGGATCCCGACGTTGAGTCCTATCTT 7500  Query 7501 CCATGCCCCCCTGGAGGGGGGAGCCTGGGGATCCCGACGTTGAGTCCTATTCTT 7500  Query 7501 CCATGCCCCCCCTGGAGGGGGGAGCCTGGGGATCCCGACGTTCAGCGACGGGTCATGGTCGA 7560  Query 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCCTAATGTCTTATTCCTGGA 7620  Query 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTCTCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCGTGCGTGCGTGTGTGTCTCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCCGTGCGTGCGCTGCGCAAAAAACTGCCCATCAACGCACTGA 7680  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACCCCGTGCGTGCGGGAACAAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACCCCGTGCGTGCGGGAACAAAAAACTGCCCATCAACGCACTGA 7680	Query	7261		7320
Sbjet 7321 CTCGGAAAAAGCTTCGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTGGCCGAGC 7380  Query 7381 TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440  Sbjet 7381 TTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440  Query 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCCGAGCACTTACGGGCGACAATACGACAA 7440  Sbjet 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCCGCAGCACTCCGACGTTGAGTCCTATTCTT 7500  Query 7501 CCATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTATTCTT 7500  Sbjet 7501 CCATGCCCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTATTCTT 7500  Query 7501 CCATGCCCCCCCTTGGAGGGGGATCCGGATCTCAGCGACGGTCATGGTCGA 7560  Query 7561 CGGTCAGTAGTGGGGCCGACAGGAAGATGTCCTGATTCCTTGATTCCTGGA 7620  Sbjet 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTCTCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCAAGAACACAAAAACTGCCCATCAACGCACTGA 7680  Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCCCCCCGTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680	Sbjct	7261		7320
Query 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440 Sbjet 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440 Query 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCGCGCGACTTCAGCTTGAGTCCTATTCTT 7500 Sbjet 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCGCGCACACTCCGACGTTGAGTCCTATTCTT 7500 Query 7501 CCATGCCCCCCCTTCTGGCTGGCGGGATCCGGACTCCGACGTTGAGTCCTATTCTT 7500 Sbjet 7501 CCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA 7560 Query 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATCTCAGCGACGGTCATGGTCGA 7620 Sbjet 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTCTCAATGTCTTATTCCTGGA 7620 Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680 Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680 Query 7681 GCAACTCGTTGCTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680	~ _			
Sbjet 7381 TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA 7440  Query 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCGGCGACACTCCGACGTTGAGTCCTATTCTT 7500  Sbjet 7441 CATCCTCTGAGCCCGCCCCTTCTGGCTGGCCGCCGACTCCGACGTTGAGTCCTATTCTT 7500  Query 7501 CCATGCCCCCCTTCTGGCTGCCCCCCCGACTCCGACGTTGAGTCCTATTCTT 7500  Sbjet 7501 CCATGCCCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCAATGTCTATTCTT 7560  Query 7501 CCATGCCCCCCTTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA 7560  Query 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTCTCAATGTCTTATTCCTGGA 7620  Sbjet 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACCCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACCCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680				
Query7441CATCCTCTGAGCCCGCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTT7500Sbjet7441CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT7500Query7501CCATGccccccTGGAGGGGGGAGCCTGGGGATCCGGACTCCGACGTGGTCGA7560Sbjet7501CCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCCGGATCTCAGCGACGGGTCATGGTCGA7560Query7561CCGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGA7620Sbjet7561CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA7620Query7621CAGGCGCACTCGTCACCCCGTGCGGAAGAACAAAAAACTGCCCATCAACGCACTGA7680Sbjet7621CAGGCGCACTCGTCACCCCGTGCGGTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA7680Query7681GCAACTCGTTGCTACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA7680Query7681GCAACTCGTTGCTACCCCGTGCGTTGCTGATTCCACCACTTCACGCAGTGCTTGCC7740				
Sbjet 7441 CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCGGACTCCGACGTTGAGTCCTATTCTT 7500  Query 7501 CCATGecccccTGGAGGGGGGGCCTGGGGATCCGGACTCCAGCGACGGTCATGGTCGA 7560  Sbjet 7501 CCATGCCCCCCCTGGAGGGGGGAGCCTGGGGATCCAGCGACGGGTCATGGTCGA 7560  Query 7561 CCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCAGCGACGGGTCATGGTCGA 7560  Query 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA 7620  Sbjet 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACCCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680				
Query 7501 CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCTCAGCGACGGGTCATGGTCGA 7560 Sbjct 7501 CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCTCAGCGACGGGTCATGGTCGA 7560  Query 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA 7620 Sbjct 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Sbjct 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680				
Sbjet 7501 CCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA 7560  Query 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGA 7620  Sbjet 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680				
Query 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGA 7620 Sbjct 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680 Sbjct 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680				
Sbjet 7561 CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGA 7620  Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Sbjet 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680				
Query 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA 7680 Sbjct 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC 7740				
Sbjct 7621 CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA 7680  Query 7681 GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC 7740	_		CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	
Query 7681 GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC 7740		7621		
	Query	7681		7740
	Sbjct	7681		7740

Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	ÁÁÁGGCÁGÁÁÁGÁÁÁGTCÁCÁTTTGÁCÁGÁCTGCÁÁGTTCTGGÁCÁGCCÁTTÁCCÁGGÁCG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TĠĊŢĊĂĂĠĠĂĠĠŢĊĂĂĂĠĊĂĠĊĠĠĊĠŢĊĂĂĂĂĠŢĠĂĂĠĠĊŢĂĂĊŢŢĠĊŢĂŢĊĊĠŢĂĠĀĠĠ	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	rggaagacagrgraacaccaaragacactaccarcarggccaagaacgaggrrtrcrgcg	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	ttcagcctgagaagggggtcgtaagccagctcgtctcatcgtgttccccgacctgggcg	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
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Sbjct	8461	ctagctgtggtaacaccctcacttgctacatcaaggcccgggcagcctgtcgagccgcag	8520
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Sbjct	8521	ggctccaggactgcaccatgctcgtgtgtggcgacgacttagtcgttatctgtgaaagtg	8580
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Sbjct	8581	cgggggtccaggaggacgcgaacctgagagccttcacggaggctatgaccaggtact	8640
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Sbjct	8641	CCGCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
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Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880

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Sbjct
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Score = 1.761e+04 bits (9536),
                      Expect = 0.0
Identities = 9578/9599 (99%), Gaps = 0/9599 (0%)
Strand=Plus/Plus
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Sbjct
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Sbjct

241

300

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Query Sbict	301 301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360 360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CICAAAGAAAACCAAACGIAACACCAACCGICGCCCACAGGACGICAAGIICCCGGGIG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421		480
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Sbjct	481		540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541		600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
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Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
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Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
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Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
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Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	gccctaactcgagtattgtgtacgaggcggccgatgccatcctgcacactccggggtgtg	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	tcccttgcgttcgcgagggtaacgcctcgaggtgttgggtggcggtgaccccacggtgg	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	ccaccaggacgcaaactcccacaacgcagcttcgacgtcatatcgatctgcttgtcg	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ĠĠġĠĊĠĊĊĠĊĊĊĊĊĊĠĠĊĊĊĊĊĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠ	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
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Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
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Sbjct	1741	aggettgggetetateagttatgeeaacggaageggeetegaegaacgeetetaetget	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	ĠĠĊĀĊŦĀĊĊĊŦĊĊĀĀĠĀĊĊŦŦĠŦĠĠĊĀŦŦĠŦĠĊĊĊĠĊĀĀĀĠĀĠĊĠŦĠŦĠŦĠĠĊĊĊĠĠŦĀŦ	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	attgcttcactccagccccgtggtggtggaacgaccgacaggtcgggcgcctacct	1920
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Sbjct	1921	acagetiggggtgeaaatgataeggaegtettegteettaaeaaeaeaeegeegeeg	1980
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Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
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Sbjct	2281	ĊĠĊĠĠĠĠĊĠàAĊĠĊŤĠŤĠĂŤĊŤĠĠàAĠĀĊAĠĠĠĀĊAĠĠŤĊĊĠĀĠĊŤĊĀĠĊĊĊĠŤŤĠĊŤĠĊ	2340
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Sbjct	2341	rigit ce a ce	2400
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Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580

Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
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Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
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Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	cctacgccttctacgggatgtggcctctctcctgctcctgctgctgccttgcctcagcgg	2760
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Sbjct	3661		3720
ر	-		-

Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
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Sbjct	3781	atagcaggggtagcctgctttcgccccggcccatttcctacttgaaaggctcctcgggg	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
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Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
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Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
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Query	4321 4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTGCTCG	4380
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Sbict	4441		4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		4560
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Sbjct	4621		4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681		4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801		4860

Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	ĠĊĊĊĊĊĊĠĠĊĂŢĠŢŢĊĠĂĊŢĊĠŢĊĊŢĊŢĠŢĠĂĠŢĠĊŢĂŢĠĂĊĠĊĠĠĠĊŢĠŢĠĊŢŢ	4920
Query	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	ggtatgagctcacgcccgccgagactacagttaggctacgagcgtacatgaacaccccgg	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	gactiggicg ctigit cagaatiga a gt caccct gac g caccca a t cacca a t a catca t g a	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	rggcrgcrcrggccgcgrafrgccrgrcaacaggcrgcgrggrcaragrggcaggarcg	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	tcttgtccgggaagccggcaattatacctgacagggaggttctctaccaggagttcgatg	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	ccctgctgtccagaccaactggcagaactcgaggtcttttgggcgaagcacatgtgga	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTCAACATATTggggggGGGGGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTA	5820
Sbjct	5761	tcctcttcaacatattggggggtgggtggctgcccagctcgccgcccccggtgccgcta	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CTGCCTTTGTGGGCGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000

Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	tctcgcctggagcccttgtagtcggtgtgtctgcgcagcaatactgcgccgcacgttg	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	ĠĊĊĊĠĠĠĊĠĂĠĠĠĠĠĊŔĠŤĠĊŔŔŤĠĠŔŤĠŔŔĊĊĠĠĊŤŔŔŤŔĠĊĊŤŤĊĠĊĊŤĊĊĊĠĠĠĠĠŔ	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACTTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct Query	6541 6601	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG  CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6600 6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Ouerv	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661		6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721		6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781		6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841		6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901		6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961		7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021		7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081		7140

Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
~ - Sbjct	7141		7200
Query	7201	TCTGGGCGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201		7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261		7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321		7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACAA	7440
Sbjct	7381		7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACTTCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGccccccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	tgctcaaggaggtcaaagcagcggcgtcaaaagtgaaggctaacttgctatccgtagagg	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	acgtccgttgccatgccagaaaggccgtagcccacatcaactccgtgtggaaagaccttc	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	ŤĠĠAAĠĀĊĀĠŤĠŤĀĀĊĀĊĆĀĀŤĀĠĀĊĀĊŤĀĊĊĀŤĊĀŤĠĠĊĊĀĀĠĀĀĊĠĀĠĠŤŤŤŤĊŤĠĊĠ	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	ticagectgagaagggggtegtaageeagetegteteategtgtteeegaeetggeg	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	rgcgcgrgrgcgagaagarggcccrgracgacgrggrragcaagcrcccccrggccgrga	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	rgggaagc tectaeggat tecaatae teaceaggaeagegggt tgaat teetegt geaag	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280

Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	ĊĀĠŦĊĀĊŦĠĀĠĀĠĊĠĀĊĀŦĊĊĠŦĀĊĠĠĀĠĠĀĠĠĊĀĀŦŦŦĀĊĊĀĀŦĠŦŦĠŦĠĀĊĊŦĠĠĀĊĊ	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGCGGCGAACCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGoocceccggggaccecocACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9060 9120
Query	9061 9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGGGCCGGGGCTGCCATATGTGGCAAGTACCTCTTCA	9120
Query Sbjct	9121		9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACCCCAATAACGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	IGICCGGIIGGIICACGGCIGGCIACAGCGGGGGGAGACAIIIAICACAGCGIGICICAIG	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGttt	9420
Sbjct	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTG	9420
SUJUL	200I	1001000CAACUATUAAUGITAAACACTCCUGCCTCTTAAGCATTTCCTGTTT	944U

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Query
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Query
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     Sbjct
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Query
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>gb|EA356451.1| Sequence 17 from patent US 7288369 Length=10803

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

Score = 1.737e+04 bits (9407), Expect = 0.0 Identities = 9407/9407 (100%), Gaps = 0/9407 (0%) Strand=Plus/Plus

Query	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	cccctCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTGTTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	ĠŢĠĊŢŢĠĊĠĠĠĠŢĠĊĊĊĠĠĠĠĠĠŢĊŢĊĠŢĠĠĊĊĊĠŢĠĊĊĊŢĠĠĠĊĊĊĠĠĠĠĠĊŢĸĸĸĊ	360
Query	361	CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	ctcaaagaaaaaccaaacgtaacaccaaccgtcgcccacaggacgtcaagttcccgggtg	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	gcggtcagatcgttggtggagtttacttgttgccgcgcaggggccctagattgggtgtgc	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	gcgcgacgaggaagacttccgagcggtcgcaacctcgaggtagacgtcagcctatccca	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	aggcacgtcggcccgagggcaggacctgggctcagcccgggtacccttggcccctctatg	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	gcaatgagggttgcgggtgggcgggatggctcctgtctccccgtggctctcggcctagct	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780

0110817	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query Sbjct	781		840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841		900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ĠĠĂĠĊĠĊĊĂĊĊĊŤĊŤĠĊŤĊĠĠĊĊĊŤĊŤĂĊĠŤĠĠĠĠĠĂĊĊŤĠŤĠĊĠĠĠŤĊŤĠŤĊŤ	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTĠĠŦĊĀĀĊŦĠŦŤŦĀĊĊŦŦĊŦĊĊĊĀĠĠĊĠĊĠĊŦĠĠĀĊĠĀĊĠĊĀĀĠĀĊŦĠĊĀĀŦŦĠŦŦ	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441 1501	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1500 1560
Query Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGCTGGGCTTGTTGGTCTCCTTACACCAGGCG TCACCGGGGGGAAATGCCGGCCGCACCACGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561		1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621		1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681		1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741		1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861		1920

Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	acagetiggggtgeaaatgataeggatgtettegteettaaeaaeaeaeegeetgg	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊAAAĊATĊĊĠĠAAĠĊĊAĊATACTĊTĊĠĠTĠĊĠĠĊŢĊĊĠĠŢĊĊĊŢĠĠAŢŢĀĊAĊĊĊĀĠĠŢ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	ccttcctcgtgttcttctgctttgcgtggtatctgaagggtaggtgggtg	2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	tctacgcctctacgggatgtggcctctcctcctgctcctgctgctgcctcagcgg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTcccccctCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060

Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	cctatgtgtataaccatctcacccctcttcgagactgggcgcacaacggcctgcgagatc	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TĠĠĊĊĠŦĠĠĊŦĠŦĠĠAAĊĊAĠŦĊĠŦĊŤĊĊĊĊĠAAŦĠĠAĠAĊĊAAĠĊŦĊAŤĊAĊĠŦĠĠĠ	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	ggcagataccgccgcgtgcgtgacatcatcaacggcttgcccgtctctgcccgtaggg	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TĠAĊŢĠĠĊĊĠĠĠAĊAAAAAĊĊAAĠŢĠĠAĠĠĠŢĠAĠĠŢĊĊAĠAŢĊĠŢĠŢĊAAĊŢĠĊŢAĊĊĊ	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	ĊĠĀĠĠĀĊĊĀŤĊĠĊĀŤĊĀĊĊĀĀĠĠĠŤĊĊŤĠŤĊĀŤĊĊĀĠĀŤĠŤĀŤĀĊĊĀĀŤĠŤĠĠĀĊĊĀĀĠ	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	ccccggtgttcacggacaactcctctccaccagcagtgccccagagcttccaggtgccc	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	acctgcatgctcccaccggcagcggtaagagcaccaaggtcccggctgcgtacgcagccc	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	aggettacaaggtgttggtgetcaacecetetgttgetgeaacgetgggetttggtgett	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200

Sbjet         4201         CTGGGGGCCCATCACGTACTCACGTACGTACGTACGTACG	Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sejet         4261         GAGGGTCGTATGGACTATATATTTTGTGCAGGGGTGCCCAGGGTGCCACCAGTCCATCT         4320           Query         4321         TGGGCATCGGCACTGTCCTTGACCAAGCAGGAGCTGCGGGGGGCGAGACTGGTTGTCCCG         4380           Sbjet         4321         TGGGCATCGGCACTGTCCTTGACCAAGCAGGAGCTGCGGGGGGCGAGCTGGTTGTCCCG         4380           Query         4381         CCACTGCTACCCCTCCGGGCTCCGGTCACTTGTGTCCCATCCTAACATCGAGGAGGTTGCTC         4440           Sbjet         4381         CCACTGCTACCCCTCCGGGCTCCGTGCACTGTGTCCCATCCTAACATCGAGGAGGTTCCCCT         4440           Query         4441         TGTCCACCACCGGAGAGATCCCCTTTTTACGGCAAGGCTACTCCACTCGAGGGGTGATCAAGG         4500           Sbjet         4501         GGGGAGAGACATCCCATTTTACGGCAAAGAGAAGACTCCACTCCACTCGAGGGAGCACGGCGGCGAGAGCGGGGGAGAGCACCCATTTTACCGCCGCGAAGAC         4500           Query         4501         GGGGGAGACATCCCATTTCTGCCACTCAAAGAGAAGAAGTGCACTCGCGCGGAAGC         4500           Sbjet         4501         GGGGAGAGACATCCCATTCTTCTGCCACTCAAAGAGAAGATGCACTCCATCAGCGGCGGAACCCACTCCACCGATGGGCACGATGCTCTCATGACTGAC	Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjet         4261         GAGGGGTTAGTGGACTAGAGCAGGAGCAGGACTCCACTCCATCC         4320           Query         4321         TGGGCATCGGCACTGCCTTGACCAAGCAGAGAGTGCGGGGGGAGACTGGTTGTGCTCC         4380           Sbjet         4321         TGGGCATCGGCACTGTCCTTGACCAAGCAGAGAGTGCGTGGGGGGGAGACTGGTTGTGCTCC         4380           Sbjet         4381         CCACTGCTCCCTCCGGGGGCTCGGTCATGTGTCCCATCAAGTCGAGAGGTTGCTC         4440           Query         4441         TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG         4501           Sbjet         4441         TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGAGGTCCGCCCTGAGGGTGATCAAGG         4502           Sbjet         4501         TGTCCACCACCGGAGAGACCCCTTTTACGGCACCAAAGAGAGAG	Query	4261		4320
Sbjet         4321         TGGGGCATGGGCATGTGTGTGACCAAGCAGGAGGAGGAGGGGGGGG	Sbjct	4261		4320
Sbjet         431         TÖGGCATCGCCATCGTCCTTGACCAGCAGGACTGGGGGGGCGGAGATGGTTGTCCTC         4380           Query         4381         CCACTGCTACCCCTCCGGGGTCCGTCACTGTGTCCCATCCTTACATCGAGGAGGTTGCTC         4440           Sbjet         4381         CCACTGCTACCCCTCCGGGGTCCGTCACTGTTCCCATCGTACATCGAGGAGGAGGTTGCTC         4440           Guery         4441         TGTCCACCACCGGAGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTGAGGTGATCAAGG         4500           Sbjet         4501         GGGGAGACATCTCATCTTTTCGCCCAAGAGGAGGCCCCCTGGAGGCTCGCCCGCAAGC         4560           Sbjet         4501         GGGGAAGCACTCTATCTTCTCCCCACTCAAACAGAGAGTCCACCTTGACGTGTCTACCCG         4620           Query         4561         TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTACCCG         4620           Sbjet         4561         TGGTCGCATTGGGCATCAATGCCTGTGCGCCTACTACCGCGGTCTTTGACCTGTTTACCGGG         4680           Sbjet         4621         TGGTCGCATTGGGCATCAATGCCTGTGCGCCTACTACCGCGGTTTTACCGGGG         4680           Sbjet         4621         CGACCAGCGCGATGTTGTCGTGTCGTGCGACCGATGCTCTATGACTGGTTTACCGGGG         4680           Query         4621         CGACCAGCGCGATGTTGTCGTGTCGACCGATGCTCATGACAGGTCTATTACCGGGG         4680           Sbjet         461         ACTTCGACTTGGATAGACTGCTCACACACCTTCAGACAGTCGTTTTACCGGGG         4680           Query         4741         ACCTTCGCCTTGGATTGGACTGACTGTCCTCCTCTC	Query	4321		4380
Sbjet         4381         CCACCACCTCACCCTCCACCTCTACATCGATCATCGATGGATG	Sbjct	4321		4380
Bbjet         4381         CÓCÁCTÓCTÁCCÉCCICCGGGACTCCGTCÁCTÓGTCCCATCCTARÁCTICAGGAGAGTTÍGCTC         4440           Query         4441         TGTCCACCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGATGATCAAGG         4500           Sbjet         4411         TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGATGATCAAGG         4500           Query         4501         GGGGAAGACATCTCATCTTCTGCCACTCAAAGAGAGAAGTGCCACGAGCTCGCCGCGAAGG         4560           Sbjet         4561         TGGTCGCATTGGGCATCAATGCGTGGCGCCTAATCACGCGGTCTTGACCTGCCGCGGAAGG         4620           Sbjet         4561         TGGTCGCATTGGGCATCAATGCGTGGTCGCCCACTCAACCGGGTCTTGACGTGTCTCATCC         4620           Sbjet         4561         TGGTCGCATTGGGCATCAATGCGTGGTCCGCCGGATGCTCTCATGACTGGCTTTACCGGC         4680           Sbjet         4621         CGACCAGCGGCGATGTTGTCGTCGTGTGCACCGATGCTCTCATGACTGGCTTTACCGGC         4680           Sbjet         4681         ACTTCGACTCTGTGATAGACTGCGACACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG         4740           Sbjet         4741         ACCCTACCTTTACCATTGAGACCACCGTGTGCACCTCAGACAGTCGATTTCAGCCTTA         4800           Sbjet         4801         GCCGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGCCACCGGGGGAC         4860           Query         4801         GCCGGGCAGGACTGCGCAGGGGGAAGCCAGGCATCTATAGATTTGTGCCCACGGGGGACC         4860           Sbjet         4801         G	Query	4381		4440
Sbjet         4441         TITTICACCACCAGGAGATCCTCATTTTAGGGAGGATTCCCCTGAGGGATCAAGG         4501           Query         4501         GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC         4560           Sbjet         4501         GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC         4560           Sbjet         4561         TGGTCGCATTGGGCATCAATGCCGTGGCCTTAACCACGAGGCTCTGACGGAGCTCTCATCC         4620           Sbjet         4561         TGGTCGCATTGGGCATCAATGCCGTGGCTCTAACCCGCGGTCTTGACGTGTCTCATCC         4620           Query         4621         CGACCAGCGGCATCATCACGCGGTCTTCACCGCGGTTTTACCGGCG         4680           Sbjet         4621         CGACCAGCGGCATGTTGTCGTCGTGTGTCGACCGATGCTCTCATGACTGGGTTTACCGGCG         4680           Query         4621         CGACCAGCGGCATGTTGTCGTCGTGTGTCGACCGATGCTCTAGACTGAGTTTACCGGCG         4680           Sbjet         4621         CGACCAGCGGCATGTTAGACTGCTGTGTGACCGAACACGTGTTCAACAGAGTCGATTTACCGCTTG         4740           Uery         4741         ACCCTACCTTTACCATTGAGACAACCACGTGTGTCACACAGAGTCGATTCACAGACACACAGGACTCACACAGGACTCACACACA	Sbjct	4381		4440
Sbjet         4441         TGTCCACCACCGGAGGATCCCCTTTTACGGCAAGGCATATCCCCCTCGAGGTGAAGGAG         450           Query         4501         GGGGAAGACATTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGACGACCTGCCCGCAAGC         456           Sbjet         4501         GGGGAAGACATCTCATCTTCTCCCCACTCAAAGAAGAAGTACGACGACGACTGCCCCGCGAAGC         456           Query         4561         TGGTCGCATTGGCCATCAATGCCGTGGCCTACCACCGGGTCTTGACGTGTCTGTC	Query	4441		4500
Sbjet         4501         GGGGAAGCACTCACTCTTCTGCCACTCAAAGAAGAAGTAGGAGCTGCCGCGAAGC         4561           Query         4561         TGGTCGCATTGGGCATCATTCTCTGCCACTCAAAGAAGAAGTGCGCCGCCAAGCC         4620           Sbjet         4561         TGGTCGCATTGGGCATCAATGCCGTGGCTACTACCGCGGGTCTTGACGTGTCTGTC	Sbjct	4441		4500
Sbjet         4501         GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGATGTCGCAGGGTCTTGACCTGCGCGGAACC         4561           Query         4561         TGGTGCATTGGGCATCAATGCCGTGGCTTATACCGCGGTCTTGACCTGTCTTCATCC         4620           Sbjet         4561         TGGTGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACCTGTCTATCCC         4620           Query         4621         CGACCAGCGGCGATGTTGTCGTCGTGTGGACCGATGCTCTCATGACTGGCTTTACCGGCG         4680           Sbjet         4621         CGACCAGCGGCGATGTTGCTCGTGTGGACCGATGCTCTCATGACTGGCTTTACCGGCG         4680           Query         4681         ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG         4740           Sbjet         4741         ACCCTACCTTTACCATTGAGACAACACGTGTGTCACTCAGACAGTGCATTTCAGCCTTG         4740           Query         4801         GCCGGGGCAGGACTGGCAGGGGGAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC         4800           Sbjet         4741         ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACCTAAC         4800           Query         4801         GCCGGGGCAGGACTGGCAGGGGGGAAGCCAGCATCTATAGATTTGTGCACCGGGGGGAC         4860           Sbjet         4801         GCCGGGGCAGGACTGGCAGGGGGGAAGCCAGCATCTATAGATTTGTGCACCGGGGGGACC         4860           Query         4861         GCCCTCCGGCATGTTCGACTCGTCCTCTGTGTGATGATGACCGGGGCTGTCTT         4920           Sbjet         4921         GGTATGAGCTCACGCCCGCCG	Query	4501		4560
Sbjet 4561 TGGTCGCATTGGCCAATGCCGTGGCTACTACCGCGGTCTTGACGTGTCTGTC	Sbjct	4501		4560
Query4621CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTTCATGACTGGCTTTACCGGCG (1)11111111111111111111111111111111111	Query	4561		4620
Sbjet 4621 CGACCAGCGGCGATGTTGCGTCGACCAGTGCTCTCATGGCTTTACCGGCG 4680  Query 4681 ACTTCGACTCTGTGATTAGACTGCAACACGTTGTCACTCAGACAGTCGATTTCAGCCTTG 4740  Sbjet 4681 ACTTCGACTCTGTGATTAGACTGCAACACGTTGTCACTCAGACAGTCGATTTCAGCCTTG 4740  Query 4741 ACCCTACCTTTACCATTGAGACACCACCTGTCCCCCAGGATGCTGTCCAGCACAGTCCAGCACACTCAGCACACTCAGCACACTCAGCACACTCAGCACACTCAGCACACTCAGCACACTCAGCACACTCAGCACACTCAGCACACTCCAGCACACCCCCAGGATTCCAGGACTCAAC 4800  Query 4801 GCCGGGCAGGACTGCAGCAGCAGCACCACCCCCCAGGATGCTGTCCCAGGACTCAAC 4800  Query 4861 GCCCGCCAGGATGCTGCACCAGGACCACCCCCCAGGATGCTGTCCCAGGACTCAAC 4800  Query 4861 GCCCCTCCGGCATGTTCGACCAGGCGCACCCAGGATCTATAGATTTGTGGCACCGGGGGAC 4860  Query 4861 GCCCCTCCGGCATGTTCGACTCGTCCTCTTGTGAGTGCTATGACCGGGGGACC 4860  Query 4921 GGTATGAGCTCACGCCCGCCGAGACTCAATAGATTTGTGGCACCGGGGGACC 4920  Query 4921 GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACAGCGGGGCTGTGCTT 4920  Query 4981 GGCTTCCCGTGTCCCGGCAGACTACAGTTAGGCTACAGACCACCCCGG 4980  Query 4981 GGCTTCCCGTGTGCCAGGACCACACTTTGAATTTTGGGAGGGCTACATGAACACCCCGG 4980  Query 5041 ATATAGATGCCCACTTTTATCCAATTTTGGGAGGGCTACATGAACACCCCGG 5040  Query 5041 ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGGGGAAACTTTCCTTACCGGGCCTACCCC 5040  Query 5041 ATATAGATGCCCACTTTTATCCCAGACAAAAGCAGGGGGAGAACTTTCCTTACCGGGCCTACCCC 5040  Query 5041 ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGGGGGAGAACTTTCCTTACCGGGCCTACCCC 5040  Query 5041 ATATAGATGCCCACTTTTTATCCCAGACAAAAGCAGGAGGAGAACTTTCCTTACCGGGCCTACCCC 5040  Query 5041 ATATAGATGCCCACTTTTTATCCCAGACAAAAGCAAGGCAGGAGAACTTTCCTTACCGGGCCTACCCCC 5040  Query 5101 TAGCGTACCAAGCCACCGTGTGCGCTAGAGCCCCCCCCCC	Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query4681ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Query	4621		4680
Sbjet 4681 ACTTCGACTGTGTATAGACTGCAACACGTGTGTCAGACAGTCGATTCAGCCTTG 4740  Query 4741 ACCCTACCTTTACCATTGAGACAACCACGTGTGTCCAGACAGTCGATTCAGCCTTG 4800  Sbjet 4741 ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCCCAGGACTCAAC 4800  Query 4801 GCCGGGGCAGGACTGGCAGGGAGAGCCAGCCTCCCCCAGGATGCTGCCCCAGGACCCACCC	Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query4741ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC4800Sbjct4741ACCCTACCTTTACCATTGAGACAACCACGTCCCCCAGGATGCTGTCTCCAGGACTCAAC4800Query4801GCCGGGGCAGGACTGGCAGGGGGAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC4860Sbjct4801GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC4860Query4861GCCCCTCCGGCATGTCGACTGCTCCGTCCTCTGTGAGTGCTATGACTGGCACCGGGGGAGC4860Sbjct4861GCCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACCGGGGGTGGCTT4920Sbjct4861GCCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACCGGGGCTGTGCTT4920Query4921GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTATGACCGGGGCTGTGCTT4920Sbjct4921GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG4980Query4981GGCTTCCCGTGTGCCAGGACCAACCAGTTAGGCTACGAGCGTACATGAACACCCCGG4980Sbjct4981GGCTTCCCGTGTGCCAGGACCAACCAGTTAGGATTTTGGAGGGCGTCTTTACGGGCCTCACTC5040Query5041ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGGGGGGGG	Query	4681		4740
Sbjet 4741 ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTCCCAGGACTCCACAGGACCAGGATCCAGGACCAGGATCCAGGACCAGGACCAGGACCAGGATCCAGGACCCAGGAGACCCAGGACCCAGGAGACCCAGGACCCAGGAGACCCCAGGACCCAGGACCCCAGGACCCCAGGACCCCAGGACCCCAGGACCCCAGGACCCCAGGACCCCACCA	_	4681		
Query4801GCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC GCCGGGCCAGGACTGCCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC 48004800Query4861GCCCTCCGGCATGTTCGACTCGTCCTCTCTGTGAGTGCTATGAGCGGGCTGTGCTT HILLING HILLING Sbjet4861GCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGAGCGGGCTGTGCTT HILLING HILLING HILLING HILLING HILLING HILLING HILLING Sbjet4861GCCCCTCCGGCATGTTCGACTCGTCCGTCTCTGTGAGTGCTATGACGGGGCTGTGCTT H9204920Query4921GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG GCTTCCCGGCATGTTCCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG H9804980Query4981GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTACTTACGGGCCTCACTC H9805040Query5041ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG Sbjet5040Query5041ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG HILLING <td>_</td> <td></td> <td></td> <td></td>	_			
Sbjet 4801 GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG	_			
Query4861GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT4920Sbjet4861GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT4920Query4921GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG4980Sbjet4921GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG4980Query4981GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGGTTCTTACGGGCCTCACTC5040Sbjet4981GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGGTCTTTACGGGCCTCACTC5040Query5041ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG5100Sbjet5041ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG5100Query5101TAGCGTACCAAGCCACGTGTGCGCTAGGGCTCAAGCCCTCCCCCATCGTGGGACCAGA5160Sbjet5101TAGCGTACCAAGCCACGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA5160Query5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Sbjet5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Query5221GACTGGGCGGTGTTCAGAATGAAGTCACCCTCCATGGGCCAACACCCCTGCTATACA5280Sbjet5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGCACCAATCACCAAATACATCATGA5280Sbjet5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA5280Sbjet5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA5280Sbjet5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACCGACCCAATCACCAAATACATCATGA5280	_			
Sbjet 4861 GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGGGGCTTGCTT	_			
Query4921GGTATGAGCTCACGCCGGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG4980Sbjct4921GGTATGAGCTCACGCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG4980Query4981GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC5040Sbjct4981GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC5040Query5041ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG5100Sbjct5041ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG5100Query5101TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA5160Sbjct5101TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA5160Query5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Sbjct5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Query5221GACTGGGCGTGTTCAGAATGAAGTCACCCTGACGACCCCAATCACCAAATCACCAATCATCA5280Sbjct5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATCACCAAATCATCATGA5280Query5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCTGGTTGGCGGCGTCC5340	_			
Sbjet 4921 GGTATGAGCTCACGCCGGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG 4980  Query 4981 GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC 5040  Sbjet 4981 GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC 5040  Query 5041 ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG 5100  Sbjet 5041 ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG 5100  Query 5101 TAGCGTACCAAGCCACCTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG 5100  Sbjet 5101 TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA 5160  Query 5101 TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA 5160  Query 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA 5220  Query 5221 GACTGGGAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA 5220  Query 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCACCAAATACATCATGA 5280  Query 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCCCCCAATCACCAAATACATCATGA 5280  Query 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCCCCCCAATCACCAAATACATCATGA 5280	_			
Query4981GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC5040Sbjct4981GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC5040Query5041ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				
Sbjet 4981 GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC 5040  Query 5041 ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG 5100  Sbjet 5041 ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG 5100  Query 5101 TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA 5160  Sbjet 5101 TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA 5160  Query 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATCGTGGGACCAGA 5160  Sbjet 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATCGTGGGCCAACACCCCTGCTATACA 5220  Sbjet 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA 5220  Query 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTCCATGGGCCAACACCCCTGCTATACA 5220  Query 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGACCCCAATCACCAAATACATCATGA 5280  Query 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCCAATCACCAAATACATCATGA 5280  Query 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCCAATCACCAAATACATCATGA 5280	_			
Query5041ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG5100Sbjct5041ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG5100Query5101TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA5160Sbjct5101TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA5160Query5161TAGCGTACCAAGCCACCGTGTGCGCTAAACCCACCCTCCATGGGGCCAACACCCCTGCTATACA5220Sbjct5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Sbjct5161TGTGGAAGTGTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Query5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA5280Sbjct5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA5280Query5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCAATCACCAAATACATCATGA5280Query5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC5340	_			
Sbjet 5041 ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG 5100  Query 5101 TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA 5160  Sbjet 5101 TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA 5160  Query 5161 TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA 5160  Query 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA 5220  Sbjet 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA 5220  Query 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA 5280  Sbjet 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA 5280  Query 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCTGGTTGGCGGCGCTCC 5340	_			
Query5101TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA5160Sbjct5101TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA5160Query5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Sbjct5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Query5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA5280Sbjct5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA5280Query5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCAATCACCAAATACATCATGA5280Query5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC5340	_			
Sbjet 5101 TAGCGTACCAAGCCACCGTGTGCGCTAAGCCCCTCCCCCATCGTGGGACCAGA 5160  Query 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA 5220  Sbjet 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA 5220  Query 5221 GACTGGGAGTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA 5280  Sbjet 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA 5280  Query 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCAATCACCAAATACATCATGA 5280	_			
Query5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Sbjct5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Query5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA5280Sbjct5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA5280Query5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCAATCACCAAATACATCATGA5280Query5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC5340	_			
Sbjet 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA 5220  Query 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA 5280  Sbjet 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA 5280  Query 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCAATCACCAAATACATCATGA 5280	_			
Query     5221     GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA     5280       Sbjct     5221     GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA     5280       Query     5281     CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC     5340	_			
Sbjct 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA 5280  Query 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC 5340	_			
Query 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC 5340	_			
	_			

Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct Query	5641 5701	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5700 5760
Sbjct	5701		5760
Query	5761	TCCTCTCAACATATTaagggaaTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761		5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821		5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881		5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	tctcgcctggagcccttgtagtcggtgtggtctgcgcagcaatactgcgccggcacgttg	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	ĠĊĊĊĠĠĠĊĠAĠĠĠĠĠĊĀĠŤĠĊĀĀŤĠĠĀŤĠĀĀĊĊĠĠĊŤĀĀŤĀĠĊĊŤŤĊĠĊĊŤĊĊĊĠĠĠĠĠĀ	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241 6301	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300 6360
Query Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421		6480
_			

Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	ĊŢĠŖĊĸĸŢĊŢŢĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	ĠĠĠŦĠĊĠĊĊŦĸĊĸĊĸĠĠŦŦŦĠĊĠĊĊĊĊŦŦĠĊĸĸĠĊĊĊŦŦĠĊŦĠĊĠĠĠĸĠĠĸĠĠĸĠĠŦĸŦĊĸŦ	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TÁGAGGCTAACCTCCTGTGGÁGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TCTGGGCGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTĠĊĊAĊĊAAAAĠTTTTĠĠĊĀĠĊŢĊĊŢĊAAĊŢŢĊĊĠĠĊĀŢŢĀĊĠĠĠĊĠAĊĀĀŢĀĊĠĀĊĀĀ	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACTTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA	7560
Sbjct	7501	ccatgcccccctggaggggagcctggggatccggatctcagcgacgggtcatggtcga	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620

Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800 7800
Sbjct Querv	7741 7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861		7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921		7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981		8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
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Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
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Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401		8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461		8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521		8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGoocceeeggggaceeccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	ccgccccccggggaccccacaaccagaatacgacttggagcttataacatcatgct	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
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Sbjct
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Sbjct
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           8941
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Sbjct
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           9001
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                     Sbjct
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Query
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Sbjct
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Sbjct
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Sbjct
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                                                                                                  9407
 Score = 366 \text{ bits } (198),
                                       Expect = 2e-97
 Identities = 198/198 (100%), Gaps = 0/198 (0%)
 Strand=Plus/Plus
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          9402
Query
                                                                                                                        9461
                      Sbjct
          10606
                                                                                                                        10665
                      cottteettottttttttcctttetttteeettttaatGGTGGCTCCATCTTAGCCCT
Query
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          10666
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Sbjct
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          10726
                                                                                                                        10785
Sbjct
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           9582
                                                      9599
Query
                      10786
                      CCTCTCTGCAGATCATGT
Sbjct
                                                     10803
>qb|AR700053.1| Sequence 17 from patent US 6921634
Length=10803
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Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

Score = 1.737e+04 bits (9407), Expect = 0.0

Identities = 9407/9407 (100%), Gaps = 0/9407 (0%)
Strand=Plus/Plus
Ouery 1 GCCAGCCCCCTGATGGGGGGGGACACTCCACCATGAATG

Query Sbjct	1 1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60 60
	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	120
Query Sbjct	61		120
Query	121	ccccctCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121		180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241		300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140

Sbjct	1081		1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141		1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261		1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621 1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680 1680
Sbjct Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681		1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741		1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801		1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861		1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊĀĀĀĊĀŤĊĊĠĠĀĀĠĊĊĀĊĀŤĀĊŤĊŤĊĠĠŤĠĊĠĠĊŤĊĊĠĠŤĊĊĊŤĠĠĀŤŤĀĊĀĊĊĊĀĠĠŤ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	ĠĊĂŢĠĠŢĊĠĂĊŢĂĊĊĊĠŢĂŢĂĠĠĊŢŢŢĠĠĊĂĊŢĂŢĊĊŢŢĠŢĂĊĊĂŢĊĂĂŢŢĂĊŔĊĊĀŢĀŢ	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280

Sbjct	2221		2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401		2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	cagacgcgcgcgctctgcttgcttgtggatgatgttactcatatcccaagcggaggcgg	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
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Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCTGCTTGCT	2760 2820
Query Sbjct	2761 2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTGTTCTTGTCGGGTTAA	2820
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Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTToggagagTCAACGTCC	2940
Sbjct	2881		2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ÎÎÎÎÎÎÎÎÎÎÎ	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
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Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
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Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420

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Sbjet         3481         TGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	3			
Overy         3541         AAACCTTCCTGGCAACGTGCATCAATGGGTATGCTGGACTGTATCCACGGGGCCCGGAA         3600           Sbjct         3541         AAACCTTCCTGGCAACGTGCATCAATGGGTATGCTGGACTGTATCCACGGGGCCCGGAA         3600           Query         3601         CGAGGACCATCGCATCACCCAAGGGTCCTGTCAATCGAGATGTATACCAATGTGGACCAAG         3660           Sbjct         3601         CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAG         3660           Query         3612         ACCTTGTGGGCTGGCCCGGCTCTCTAAGGTTCCCGCTCATTGACACCTGTACCCGGGGT         3720           Sbjct         3721         CCTCGGACCTTTACCTGGTCACGAGGCACCCCGATGTTCACTCCTGCCGCCGGGGT         3780           Sbjct         3721         CCTCGGACCTTTACCTGGTCACGAGGCACCCCGATGTTCACTCCTGGACCCGGGGGGGG	_			
Sbjet         3541         AAACTTCCTGGCAACGGGATCAGGGATGGATGGATGGATG	_			
Query         3601         CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG         366           Sbjet         3601         CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG         366           Query         3661         ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCACTCAGATGTACCTGCGGCT         3720           Sbjet         3661         ACCTTGTGGGCTGGCCCGTCCTCAAGGTTCCATTGCACCTGTACCTGGCGC         3720           Query         3721         CCTCGGACCTTTACCTGGTCACGAGGCAGGCCGGTGTTCCTCTCTGTGCCCGGCGCGGAGGTG         3780           Sbjet         3721         CCTCGGACCTTTACCTGGTCACGAGGCAGGCCGGCCGATTCCTCTCTGTGCCCGGCGCGAGGTG         3780           Query         3781         ATAGCAGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTGAAAGGCTCCTGGGGC         3840           Sbjet         3811         ATAGCAGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTGAAAGGCTCCTGGGGG         3840           Query         3814         GTCCGCTGTTGTGCCCCGGCGGACACCCCTTTCCTACTAGGGCCCGGGTGGCCCCGGGGGGGG	_			
Sbjet         3601         CGGGGCACCTGCATCACCCAAGGTCTCTCACGAGTGTATCCAGATGTATCCATGGGCCAGCCA	_			
Query         3661         ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT         3720           Sbjet         3661         ACCTTGTGGGCTGGCCCGCTCTCTAAGGTTCCCGCTCATTGACACCCTGTGCGGCT         3720           Query         3721         CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCCGGCGGGGGGG         3780           Sbjet         3721         CCTCGGACCTTTACCTGGTCACGAGGCAGCGCGATGTCATTCCCGTGCCCGGCGGAGGG         3780           Query         3781         ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG         3840           Sbjet         3781         ATAGCAGGGTAGCCTGGTTTCGCCCCGGGGCCAATTTCATGTGAAAGGCTCCTCGGGGG         3840           Query         3841         GTCCGCTGTTGTGCCCCGGGGACACCCCGTGGGCCTATTCATGGACCGGGGGTGTGCACC         3900           Sbjet         3841         GTCGCTGTTGTGCCCCGGGGGACACCCCGTGGGCCTATTCAGGGCCGGGGTGTGCACC         3900           Sbjet         3901         GTGGAGTGGCTAAAGCGGTGGACATTTATCCCTGTGGAAACCTTAGGGCCAGCAGATGAACCATGAGAT         3960           Sbjet         3961         CCCCGGTGTTCACGGACAACTCCTTCCACCAGCAGAGTGCCCCAAGACCTTCAGGTGGCC         4020           Query         4961         ACCTGCATGCTCACCGGCAAACTCCTTCTCACCAGAGAGTCCCCAGAGACTTCAGGTGGCC         4080           Sbjet         4961         ACCTGCATCAAGGTTCCACCACGGCAGCAGTAAGACCACCAAGGTCCCGGGTGGGT	_	3601		3660
Sbjet         3661         ACCTTGTGGGCTGGCCCGCTCTCAAGGTTCCCGCTCATTGACACCCTGTGCGGCT         3728           Query         3721         CCTCGGACCTTTACCTGGTCACGAGGAGCACGCGGATGTCATTCCCGTGCGCCGGGAGGTG         3780           Sbjet         3721         CCTCGGACCTTTACCTGGTCACGAGGCACGCGATGTCATTCCCGTGCGCCGGGAGGTG         3780           Query         3781         ATAGCAGGGTACCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG         3840           Sbjet         3781         ATAGCAGGGTACCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG         3840           Query         3841         GTCCGCTGTTGTGCCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGGTGTGCACC         3900           Sbjet         3841         GTCCGCTGTTGTGCCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGGGTGTGCACC         3900           Sbjet         3901         GTGGAGTGCTAAAGCGGTGGACTTTATCCTGTGGAGACCTAGGGACACACCATGAGGT         3960           Sbjet         3901         GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACACACAC	_	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjet         3721         CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGAGGGTG         3780           Query         3781         ATAGCAGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG         3840           Sbjet         3781         ATAGCAGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG         3840           Query         3841         GTCCGCTGTTGTGCCCCGCGGGACACGCCCTTTCTACTTGAAAGGCTCCCTCGGGGG         3840           Sbjet         3841         GTCCGCTGTTGTGCCCCGCGGGACACGCCCTTTTCAGGGCCCACGGGTGTGCACCC         3900           Ouery         3901         GTGGAGTGCCTAAACCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCACTGAGAT         3960           Sbjet         3901         GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAAGGGACAACCATGAGAT         3960           Ouery         3961         CCCCGGTGTTCACGAGACACTCCTCTCACCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC         4020           Sbjet         3961         CCCCCGGTGTTCACGGACAACTCCTCTCACCACCAGCAGTGCCCCAGAGCTTCCAGGTACGCCC         4020           Ouery         4021         ACCTGCATCCTCCACCGGCAGCGTAAGAGCCCCAAGGTCCCGCGTGACGTACGCACACCC         4080           Sbjet         4021         ACCTGCATCCACCGCGCAGCGGTAAGAGCCCCAAGGTCCCGCGTGCGT	Sbjct	3661		3720
Sbjet         3721         CCTGGGACCTTTACCTGGTCACGGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG         3780           Query         3781         ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG         3840           Sbjet         3781         ATAGCAGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG         3840           Query         3841         GTCCGCTGTTGGCCCCGCGGGACACGCCTGGGCCTATTCAGGGCCGGGTGTGCACC         3900           Sbjet         3841         GTCCGCTGTTGTGCCCCGCGGGACACGCCTGGGCCTATTCAGGGCCGGGTGTGCACC         3900           Ouery         3901         GTGGAGTGGCTAAACCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT         3960           Sbjet         3901         GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT         3960           Ouery         3961         CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCC         4020           Sbjet         3961         CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCC         4080           Sbjet         4021         ACCTGCATGCTCCACCGGCAGGGTAAGAGCACCAAGGTCCCGGCTGCGTAGCAGCCC         4080           Sbjet         4021         ACCTGCATACAAGGTGTTGGTCCTAACCCCTCTGTTGCTGCAACGCTGGGTTTGGTCTT         4140           Ouery         4141         ACATGCCAAGGCCCCATGGGGTTGATCCTAATTCAGGACCGGGGTGAAACAATTACCA         4200           Sbjet         4201         CTGGCAGCCCCATCAGGTACTCCAC	Query	3721		3780
Sbjet 3781 ATAGCAGGGGTAGCCTGCTTCGCCCCGGCCCATTTCCTACTGAAAGGCTCCTCGGGGG 3840  Query 3841 GTCCGCTGTTGTGCCCCGGGGACACGCCGTTTCCTACTGGAAGGCCTCCTCGGGG 3900  Sbjet 3841 GTCCGCTGTTGTGCCCCGGGGACACGCCGTGGGCCTATTCAGGGCCGGGGTGTGCACCC 3900  Query 3901 GTGGAGTGGCTAAAGCGGTGGACCTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT 3960  Sbjet 3901 GTGGAGTGGCTAAAGCGGTGGACCTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT 3960  Sbjet 3901 CCCCGGTGTTCACGGACAACCTCTCCACCAGAGACCTAGGGACAACCATGAGAT 3960  Query 3961 CCCCGGTGTTCACGGACAACCTCTCCACCACAGAGCCTCCAGGGACCAACCA	Sbjct	3721		3780
Sbjet3781ATAGCAGGGGTAGCCTGCTTTCGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG3840Query3841GTCCGCTGTTTGTGCCCCGGCGGGACAGGCCTATTCAGGGCCGGGTGTGCACC3900Sbjet3841GTCCGCTGTTGTGCCCCGCGGGACAGGCCTATTCAGGGCCGGGTGTGCACC3900Query3901GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGGAT3960Sbjet3901GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGAT3960Sbjet3901GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT3960Query3961CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC4020Sbjet3961CCCCGGGTGTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC4020Sbjet4021ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC4020Sbjet4021ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCC4080Sbjet4021ACCTGCATGCTCCCACCGGCGGTAAGAGCACCAAGGTCCCGGCTGGGATACGCAGCC4080Sbjet4021ACGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACCGTGGGCTTTGGTGCTT4140Sbjet4081AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGAACCGTGGGCTTTGGTGCTT4140Query4141ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA4200Sbjet4141ACATGTCCAAGGCCCATGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA4200Sbjet4201CTGGCAGCCCCATCACGTACTCACCTACGGCAAGTTCCTTGCCGAACGGGGGGTGCTCAG4260Sbjet4261GAGGTGCTTATGACATAATAATTTGTGACGAAGTCCCATTCCACCCAC	Query	3781		3840
Sbjet 3841 GTCCGCTGTTGTGCCCCGGGGACACGCCGTGGGCTATTCAGGGCCGGTGTGGCACCC 3900 Query 3901 GTGGAGTGGCTAAAGCGGTGGACTTTATCCTTGTGAGAACCTAGGACACCATGAGAT 3960 Sbjet 3901 GTGGAGTGCCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT 3960 Query 3961 CCCCGGTGTTCACGGACAACCTCTCCACCAGCAGTGCCCCAGAGGTTGCCC 4020 Sbjet 3961 CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGGTTCCCAGGTGGCCC 4020 Query 4021 ACCTGCATGCTCCACCGGCGGGAGACACCATGAGAT 3960 Query 4021 ACCTGCATGCTCCACCGGCAGCGGTAAGAGCACCAAGGTTCCCAGGTGGCCC 4020 Sbjet 4021 ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCCAAGGTTCCCAGCAGGCCC 4080 Query 4081 AGGGCTACAAGGTGTTGGTGCTCCACCAGCAGGTGCCCCAGAGGTTCCAGCAGCCC 4080 Sbjet 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTTGTTGCTGCAACGCTGGGCTTTTGGTGCTT 4140 Sbjet 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTTGGTGCTT 4140 Query 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200 Query 4201 CTGGCAGCCCATCAGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200 Query 4201 CTGGCAGCCCATCAGGTACTCAACCCACTACGGCAAGGTTCCTGCGACGCGGGTGAGAACAATTACCA 4200 Query 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGGGTGGAGAACAATTACCA 4200 Query 4261 GAGGTGCTTATGACATAATAATTTGTGACGAAGGTTCCTTGCCGACGGGGGGGG	Sbjct	3781		3840
Sbjet         3841         GTCCGCTGTTGTGCCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGGGTGTGCACCC         3900           Query         3901         GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCATAGGACAACCATGAGAT         3960           Sbjet         3901         GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT         3960           Query         3961         CCCCGGTGTTCACGGACAACTCCTTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC         4020           Sbjet         3961         CCCCGGTGTTCACGGACAACTCCTCTCCACCAGGTGCCCCAGAGCTTCCAGGTGGCCC         4020           Query         4021         ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCCGAGCGCTACGCAGCCC         4080           Sbjct         4021         ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC         4080           Sbjct         4021         ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC         4080           Sbjct         4081         AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGGTGCGCTTTGGTGCTT         4140           Query         4141         ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA         4200           Sbjct         4201         CTGGCAGCCCATCACGTACTCCACTACGGCAAGTTCCTTGCCGCACGGGGTGAGAACAATTACCA         4200           Sbjct         4201         CTGGCAGCCCATCACGTACTCCACTACGGCAAGTTCCTTGCCGACGGGGGGGG	Query	3841		3900
Sbjet 3901 GTGGAGTGCCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT Query 3961 CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGGTGCCCCAGAGCTTCCAGGTGGCCC 4020 Sbjet 3961 CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGGTGCCCCAGAGCTTCCAGGTGGCCC 4020 Query 4021 ACCTGCATGCTCCCACCGGCAGGGTAGAAGCACCAAGGTCCCGGTTGCGGCCC 4080 Sbjet 4021 ACCTGCATGCTCCCACCGGCAGGGTAGAAGCACCAAGGTCCCGGTACGCAGCCC 4080 Query 4081 AGGGCTACAAGGTGTTGGTGCTCCACCAGCAGGTCCCGGCTGCGTACGCAGCCC 4080 Sbjet 4081 AGGGCTACAAGGTGTTGGTGCTCCACCCGGCAGGCTGCGTACGCAGCCC 4080 Query 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200 Sbjet 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200 Query 4201 CTGGCAGCCCCATCACGTACTCCACCTACGCAAGTTCCTTGCCGACGGGGTGAGAACAATTACCA 4200 Sbjet 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGGGTGAGAACAATTACCA 4260 Query 4261 GAGGTGCTTAGACACACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGGGTGGTGCTCAG 4260 Query 4261 GAGGTGCTTATGACATAATATTGTGACGAAGTTCCTTGCCGACCGGGGTGCTCAG 4260 Query 4261 GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACACCCACTCA 4320 Query 4321 TGGGCATCGCACTACAGTACTCCACCTACGGCAACTCCACCTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACTACCACC	Sbjct	3841		3900
Sbjet         3901         GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACTACAGAT         3960           Query         3961         CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC         4020           Sbjet         3961         CCCCGGTGTTCACCGGACAACTCCTCTCCACCAGCAGTGCCCCCAGAGCTTCCAGGTGGCCC         4020           Query         4021         ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC         4080           Sbjet         4021         ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC         4080           Query         4081         AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT         4140           Sbjet         4081         AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT         4140           Query         4141         ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA         4200           Sbjet         4141         ACATGTCCAAGGCCCATGAGGTTGCTACCTACGTACTCTTGCCGACGGGGTGAGAACAATTACCA         4200           Query         4201         CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGGGGTGGTCAG         4260           Sbjet         4261         GAGGTGCTTATGACATAATATTTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	Query	3901		3960
Sbjet 3961 CCCCGGTGTTCACGGACAACTCCTCCACCAGCAGTGCCCCAGGGCTGCAGGCCC 4020 Query 4021 ACCTGCATGCTCCACCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC 4080 Sbjet 4021 ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC 4080 Query 4081 ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC 4080 Query 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT 4140 Sbjet 4081 AGGGCTACAAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT 4140 Query 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200 Sbjet 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200 Query 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGGTTCCTGCGGCGGGTGCTCAG 4260 Sbjet 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGGTTCCTTGCCGACGGGGTGCTCAG 4260 Query 4261 GAGGTGCTTATGACATAATAATTTGTGACGAAGTTCCTTGCCGACGGGGTGCTCAG 4260 Query 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	Sbjct	3901		3960
Sbjet 3961 CCCCGGTGTTCACGGACAACTCCTCTCACCAGCAGCCCCAGAACTTCCAGGTTGCCCC 4020  Query 4021 ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC 4080  Sbjet 4021 ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC 4080  Query 4081 ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC 4080  Query 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT 4140  Sbjet 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT 4140  Query 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200  Sbjet 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200  Query 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260  Query 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260  Query 4261 GAGGTGCTTATGACATAATAATTTGTGACGAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260  Query 4261 GAGGTGCTTATGACATAATAATTTTGTGACGAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260  Query 4321 TGGGCATCGGCACTGCCTACGAAGCAGCAGCTGCCACATCCATC	Query	3961		4020
Sbjet 4021 ACCTGCATCGCTCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC 4080  Query 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT 4140  Sbjet 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT 4140  Query 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200  Sbjet 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200  Query 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGGGGTGCTCAG 4260  Sbjet 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260  Query 4261 GAGGTGCTTATGACATAATATTTGTGACGAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260  Sbjet 4261 GAGGTGCTTATGACATAATATTTGTGACGAAGTTCCTCACCGACGGCGGGTGCCACATCCATC	Sbjct	3961		4020
Query4081AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT4140Sbjet4081AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT4140Query4141ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA4200Sbjet4141ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA4200Query4201CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGGGGTGCTCAG4260Sbjet4201CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG4260Query4261GAGGTGCTTATGACATAATAATTTGTGACGAAGTTCCTTGCCGACGGCGGGTGCTCAG4260Query4261GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	Query	4021		4080
Sbjet 4081 AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT 4140  Query 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200  Sbjet 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200  Query 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGGTTCCTTGCCGACGGCGGGTGCTCAG 4260  Sbjet 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260  Query 4261 GAGGTGCTTATGACATAATAATTTGTGACGAAGTTCCTTGCCGACGGCGGGGTGCTCAG 4260  Sbjet 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	Sbjct	4021	ACCTGCÁTGCTCCCÁCCGGCÁGCGGTAÁGÁGCÁCCAÁGGTCCCGGCTGCGTÁCGCÁGCCC	4080
Query4141ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAATTACCA4200Sbjet4141ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAATTACCA4200Query4201CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG4260Sbjet4201CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG4260Query4261GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	_			
Sbjet 4141 ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA 4200  Query 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260  Sbjet 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG 4260  Query 4261 GAGGTGCTTATGACATAATAATTTGTGACGAAGTTCCTCCACCGACGGCGGGTGCTCAG 4260  Sbjet 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	_			
Query4201CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG4260Sbjct4201CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG4260Query4261GAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	_			
Sbjet 4201 CTGGCAGCCCCATCACGTACTCCACCTACGGCAGGTGCCCACATCCACCTACGGCAGGTGCCACATCCACCT 4320  Query 4261 GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	_			
Query 4261 GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	_			
Sbjct 4261 GAGGTGCTTATGACATAATAATTTGTGACGAGGGGGCCACTCCACGGATGCCACATCCATC	_			
Query4321TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTGCTCG4380Sbjet4321TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTGCTCG4380Query4381CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC4440Sbjet4381CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC4440Query4441TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG4500Sbjet4441TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG4500	_			
Sbjet 4321 TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTGCTCG 4380  Query 4381 CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC 4440  Sbjet 4381 CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC 4440  Query 4441 TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500  Sbjet 4441 TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500	_			
Query       4381       CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC       4440         Sbjct       4381       CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC       4440         Query       4441       TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG       4500         Sbjct       4441       TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG       4500	_			
Sbjct 4381 CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC 4440  Query 4441 TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500  Sbjct 4441 TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500	_			
Query 4441 TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500 Sbjct 4441 TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500	_			
Sbjct 4441 TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG 4500	_			
	_			
	_			

Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561		4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	gccgggcaggactggcaggggaagccaggcatctatagatttgtggcaccggggagc	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100 5100
Sbjct Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161		5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221		5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281		5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	agatggaagagtgctctcagcacttaccgtacatcgagcaagggatgatgctcgctgagc	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
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Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCCCCATCGGCAGCGTTGGACTGGGGAAGG	5880
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Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
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Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
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Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
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Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
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Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
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Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840

Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
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Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
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Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
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Query	7201	TCTGGGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
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Sbjct	8341	cccaagcccgcgtggccatcaagtccctcactgagaggctttatgttgggggccctctta	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
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Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct Querv	8581 8641	CGGGGGTCCAGGAGGCCGGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640 8700
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Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCGTG	8760
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Query	8761	ACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761		8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
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Identities = 198/198 (100%), Gaps = 0/198 (0%)
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Query
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Sbjct
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    10726
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    9582
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Query
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Sbjct
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## >**gb|GP244623.1|** Sequence 1 from patent US 7504255 Length=9646

Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)

Score = 1.732e+04 bits (9379),

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Sbjct
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        120
Query
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        120
Sbjct
    61
    121
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Query
        121
                                               180
Sbjct
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Sbjct
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Expect = 0.0

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Sbjct		GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query Sbjct	361 361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420 420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
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Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481		540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541		600
Query	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661		720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
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Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
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Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	ĠĊĊĊŦĂĂĊŦĊĠĂĠŦĂŦŦĠŦĠŦĂĊĠĂĠĠĊĠĠĠĊĠĂŦĠĊĊĂŦĊĊŦĠĊĂĊĂĊŦĊĊĠĠĠĠŦĠŦĠ	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	tcccttgcgttcgcgagggtaacgcctcgaggtgttgggtggcggtgaccccacggtgg	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	ccaccaggacgcaaactccccacaacgcagcttcgacgtcatatcgatctgcttgtcg	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ggagcgccaccctctgctcggccctctacgtgggggacctgtgcgggtctgtct	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
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Sbjct	1261		1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
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Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
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Sbjct	1501	tcaccggggaagtgccgcaccacggctgggcttgttggtctccttacaccaggcg	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
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Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
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Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
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Sbjct	1921	acagetiggggtgeaaatgataeggatgtettegteettaaeaaeaeaeeegeegg	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ĠĊAAŤŤĠĠŤŤĊĠĠŤŤĠŤAĊĊŤĠĠAŤĠAAĊŤĊĀAĊŤĠĠĀŤŤĊAĊĊĀAAĠŤĠŤĠĊĠĠĀĠĊĠĊ	2040
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Sbjct	2041	cccttgtgtcatcggaggggtggcaacaacaccttgctctgcccactgattgttcc	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊŔĠĊŔŤĊĊĠĠŔŔĠĊĊŔĊŔŤŔĊŤĊŤĊĠĠŤĠĊĠĠĊŤĊĊĠĠŤĊĊĊŤĠĠŔŤŤŔĊŔĊĊĊŔĠĠŤ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	ĠĊĂŢĠĠŢĊĠĂĊŢĂĊĊĊĠŢĂŢĂĠĠĊŢŢŢĠĠĊĂĊŢĂŢĊĊŢŢĠŢĂĊĊĂŢĊĂŢŢĀĊĀĊĊĂŢĀŢ	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	ŤĊŔŔŔĠŤĊŔĠĠŔŤĠŤŔĊĠŤĠĠĠŔĠĠĠŤĊĠŔĠĊŔĊŔĠĠĊŤĠĠŔŔĠĊĠĠĊĊŤĠĊŔŔĊŤĠĠŔ	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	ĊĠĊĠĠĠĠĊĠĂĂĊĠĊŤĠŤĠĂŤĊŤĠĠĂĂĠĂĊĂĠĠĠĂĊĂĠĠŤĊĊĠĂĠĊŤĊĂĠĊĊĊĂŤŤĠĊŤĠĊ	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	tgtccaccacacagtggcaggtccttccgtgttctttcacgaccctgccagccttgtcca	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	ccggcctcatccacctccacagaacattgtggacgtgcagtacttgtacggggtagggt	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	caagcatcgcgtcctgggccattaagtgggagtacgtcgttctcctgttcctcctgcttg	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580

Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ctttggagaacctcgtaatactcaatgcagcatccctggccgggacgcacggtcttgtgt	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	ccttcctcgtgttcttctgctttgcgtggtatctgaagggtaggtgggtg	2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCTTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGGCTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC	2940
Query	2941	ggggggggCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGCGCGATGCCGTCATCTTACTCATGTGTTGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180 3240
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct Query	3241		3300
_	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct Ouerv	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG  GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		3420
Query	3421	CGCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421		3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		3720

Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	cctcggacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccgaggtg	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	atagcaggggtagcctgctttcgccccggcccatttcctacttgaaaggctcctcgggg	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320 4380
Query	4321 4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct Ouerv	4321	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbict	4441		4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561		4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681		4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801		4860

Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	ĠĂĊŦĠĠĠĊĠĊŦĠŦŦĊĂĠĂĂŦĠĂĂĠŦĊĂĊĊĊŦĠĂĊĠĊĂĊĊĊĂĂŦĊĂĊĊĂĂĂŦĂĊĂŦĊĂŦĠĀ	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	ĊĂŢĠĊĂŢĠŢĊĠĠĊĊĠĂĊĊŢĠĠĂĠĠŢĊĠŢĊĂĊĠĂĠĊĂĊĊŢĠĠĠŢĠĊŢĊĠŢŢĠĠĊĠĠĊĠŢĊĊ	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TĠĠĊŢĠĊŢĊŢĠĠĊĠĊĠŢĂŢŢĠĊĊŢĠŢĊĂĂĊĂĠĠĊŢĠĊĠŢĠĠŢĊĂŢĂĠŢĠĠĠĊĀĠĠĂŢŢĠ	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	ŤĊŦŦĠŦĊĊĠĠĠĂĂĠĊĊĠĠĊĂĂŦŦĂŦĂĊĊŦĠĂĊĂĠĠĠĂĠĠŦŦĊŦĂĊĊĂĠĠĀĠŦŦĊĠĂŦĠ	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	ccgcctttgtgggcgctggcttagctggcgccatcggcagcgttggactgggaagg	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	tcctcgtggacattcttgcagggtatggcgcgggcgtggcgggagctcttgtagcattca	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	agatcatgagcggtgaggtcccctccacggaggacctggtcaatctgctgcccgccatcc	6000

Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	tctcgcctggagcccttgtagtcggtgtgtctgcgcagcaatactgcgccgcacgttg	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	ĠĊĊĊĠĠĠĊĠĂĠĠĠĠĠĊŔĠŤĠĊŔŔŤĠĠŔŤĠŔŔĊĊĠĠĊŤŔŔŤŔĠĊĊŤŤĊĠĊĊŤĊĊĊĠĠĠĠĠŔ	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct Query	6541 6601	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG  CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6600 6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Ouerv	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661		6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721		6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781		6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841		6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901		6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961		7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021		7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081		7140

Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	aggtetecgtacecgcagaaattetgeggaagteteggagattegeeeggeeetgeeeg	7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	ŤŦŤĠĠĠĊĠĠĊĊĠĠŔĊŤŔĊŔŔĊĊĊĊĊĠĊŤŔĠŤŔĠŔĠŔĊĠŤĠĠŔŔŔŔŔĠĊĊŤĠŔĊŤŔĊĠ	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCCTGGAGGGGAGCCTGGGGATCCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	ĠĊŔŔĊŤĊĠŤŤĠĊŤŔĊĠĊĊŔŤĊŔĊŔŔŤĊŤĠĠŤĠŤŔŤŤĊĊŔĊĊŔĊŤŤĊŔĊĠĊŔĠŤĠĊŤŤĠĊĊ	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	ŤŤĊĂĠĊĊŤĠĂĠĂĂĠĠĠĠĠĠŤĊĠŤĂĂĠĊĊĂĠĊŤĊĠŤĊŤĊĂŤĊĠŤĠŤŤĊĊĊĊĠĂĊĊŤĠĠĠĊĠ	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	tgcgcgtgtgcgagaagatggccctgtacgacgtggttagcaagctccccttggccgtga	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
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Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280

Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
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Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGccccccggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACCTCCAGTCAATT	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	tctacggagcctgctactccatagaaccactggatctacctccaatcattcaaagactcc	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Query	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGGC	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241		9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301		9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTG	9420
Sbjct	9361		9420

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9421
                                                9480
Query
        9421
        9478
    9481
        tttettttteeettettt 9498
Query
        Sbjct
    9479
                     9495
Score = 285 bits (154), Expect = 6e-73 Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus
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Query
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        9519
Sbjct
    9461
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    9475
                                                9532
Query
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Sbjct
    9520
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                                                9592
Query
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Sbjct
                                               9639
    9593
        ATCATGT 9599
Query
        Sbjct
    9640
       ATCATGT
             9646
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>dbj|DL487744.1| FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF Length=9646

> Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Score = 1.732e+04 bits (9379), Expect = 0.0 Identities = 9459/9498 (99%), Gaps = 3/9498 (0%) Strand=Plus/Plus
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Query	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	CCCCCCCGGGAGACCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTGTTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540

Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561		1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621		1680

Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
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Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
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Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
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Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861 1921	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920 1980
Query Sbjct	1921	ACAGCIGGGGIGCAAAIGAIACGGAIGICIICGICCIIAACAACACCAGGCCACCGCIGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981		2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	gcatggtcgactacccgtataggctttggcactatccttgtaccatcaattacaccatat	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2340
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Ouerv	2401	CCGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401		2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
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Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
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Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŤŤŤĠĠĂĠĂĂĊĊŤĊĠŤĂĂŤĂĊŤĊĂĂŤĠĊĂĠĊĂŤĊĊĊŤĠĠĊĊĠĠĠĂĊĠĊĂĊĠĠŤĊŤŤĠŤĠŤ	2640
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Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCGTGCCTCAGCGGG	2760
Sbjct Query	2701 2761	TCTACGCCTTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCCTCAGCGGG  CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2760 2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGGTTAA	2820
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Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	
Query Sbjct	2881 2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGCGCCCCTCAACGTCC	2940 2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
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Sbjct	3061		3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
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Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181		3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
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Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
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Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
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Query	4021 4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
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Query Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141		4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACCATCT	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	ccactgctacccctccgggctccgtcactgtgtcccatcctaacatcgaggaggttgctc	4440
Query	4441	TGTCCACCACCGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	ggggaagacatctcatcttctgccactcaaagaagaagtgcgacgagctcgccgcgaagc	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
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Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100

Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101		5160
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Sbjct	5161		5220
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Query Sbjct	5641 5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700 5700
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Sbjct	5701		5760
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Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TĠĊŢĠĂĠĊĠĂĊŢŢŦĂĀĠĂĊĊŢĠĠĊŢĠĂĀĀĠĊĊĂĀĠĊŢĊĂŢĠĊĊĂĊĀĀĊŢĠĊĊŢĠĠĠĂŢŢĊ	6360
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Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
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Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
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Sbjct
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Sbjct	1741	agggctggggtcctatcagttatgccaacggaagcggcctcgacgaacgcccctactgct	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	ĠĠĊAĊŦĀĊĊĊŦĊĊAĀĠĀĊĊŦŦĠŦĠĠĊĀŦŦĠŦĠĊĊĊĠĊĀĀĀĠĀĠĊĠŦĠŦĠŦĠĠĊĊĊĠĠŦĀŦ	1860
Query	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920

Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	gcaattggttcggttgtacctggatgaactcaactggattcaccaaagtgtgcggagcgc	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	ccccttgtgtcatcggagggggggcaacaacaccttgctctgcccactgattgttcc	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊŔĸĠĊŔŦĊĊĠĠŔĸĠĊĊŔĊŔŦŔĊŦĊŦĊĠĠŦĠĊĠĠĊŦĊĊĠĠŦĊĊĊŦĠĠŔŦŦŔĊŔĊĊĊŔĠĠŦ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTCCTGCTTG	2520
Query	2521 2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580 2580
Sbjct Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641		2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCCTCAGCGGG	2760
~ Sbjct	2701		2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761		2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTcccccccTCAACGTCC	2940
Sbjct	2881		2940
Query	2941	gggggggGCGCATCCCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTTGTACACCCGACTCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060

Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	cgcccatcacggcgtacgcccagcagacgagaggcctcctagggtgtataatcaccagcc	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	cgaggaccatcgcatcacccaagggtcctgtcatccagatgtataccaatgtggaccaag	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	Accttgtgggctggcccgctcctcaaggttcccgctcattgacaccctgcacctgcgct	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	cctcggacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccgacgaggtg	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	atagcagggtagcctgctttcgccccggcccatttcctacttgaaaggctcctcgggg	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	ĠŤĊĊĠĊŤĠŤŤĠŤĠĊĊĊĊĠĊĠĠĠAĊĀĊĠĊĊĠŤĠĠĠĊĊŦĀŤŤĊĀĠĠĠĊĊĠĊĠĠŤĠŤĠĊĀĊĊĊ	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	ĠŦĠĠĀĠŦĠĠĊŦĀĀĠĠĊĠĠŦĠĠĀĊŦŦŦĀŦĊĊĊŦĠŦĠĠĀĠĀĀĊĊŦĀĠĀĠĀĊĀĀĊĊĀŦĠĀĠĀŦ	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	ccccggtgttcacggacaactcctctccaccagcagtgccccagagcttccaggtgccc	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	acctgcatgctccaccggcagcggtaagagcaccaaggtcccggctgcgtacgcagccc	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AĠĠĠĊŦĀĊĀĀĠĠŤĠŦŦĠĠŤĠĊŦĊĀĀĊĊĊŦĊŤĠŦŦĠĊŤĠĊĀĀĊĠĊŤĠĠĠĊŤŦŦĠĠŤĠĊŤŤ	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200

Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	ĊŤĠĠĊĂĠĊĊĊĊĂŤĊĂĊĠŤĂĊŤĊĊĂĊĊŤĂĊĠĠĊĂĀĠŤŤĊĊŤŤĠĊĊĠĂĊĠĠĊĠĠĠŤĠĊŤĊĀĠ	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	rgggcarcggcactgrccrrgaccaagcagagactgcggggggggagactggrtgrccg	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	ccactgctacccctccgggctccgtcactgtgtcccatcctaacatcgaggaggttgctc	4440
Query	4441	TGTCCACCACCGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGC	4860
Sbjct	4801	gccggggcaggactggcaggggaagccaggcatctacagatttgtggcaccgggggagc	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	ggcttcccgtgtgccaggaccatcttgaattttgggagggcgtctttacgggcctcactc	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340

Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	rggcrgcrctggccgcgraftgccrgrcaacaggcrgcgrggrcafagrggcaggafrg	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	tcttgtccgggaagccggcaattatacctgacagggaggttctctaccaggagttcgatg	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	gcccggcgagggggagtgcaatggatgaaccggctaatagccttcgcctcccggggga	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	accatigititccccacigcactacigiccigagagcgatigcagccigcccigc	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480

Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	ŤĊĠĠŤĊĊŤĂĠĠĂĊĊŤĠĊĂĠĠĂĂĊĂŤĠŤĠĠĂĠŤĠĠĠĂĊĠŤŤĊĊĊĊĂŤŤĂĂĊĠĊĊŤĂĊĂĊĊĀ	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	ĊĠĠĠĊĊĊĊŦĠŦĂĊŦĊĊĊĊŦŦĊĊŦĠĊĠĊĊĠĂĂĊŦĂŦĂĂĠŦŦĊĠĊĠĊŦĠŦĠĠĠĠĠĠŦĠŦĊŦĠ	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	ĊĀĠĀĠĠĀĀTĀĊĠŦĠĠĀĠĀTĀĀĠĠĊĠĠĠŦĠĠĠĠĠĀĊŦŦĊĊĀĊŦĀĊĠŦĀŦĊĠĠĠŦĀŦĠĀĊŦĀ	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	ĊŤĠŔĊŔŔŤĊŤŤŔŔŔŤĠĊĊĠŤĠĊĊŔĠŔŤĊĊĊŔŤĊĠĊĊĠŔŔŤŤŤŤĊŔĊŔĠŔŔŤŤĠĠŔĊĠ	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	ĠĠĠŦĠĊĠĊĊŦĂĊĂŦĂĠĠŦŦŦĠĊĠĊĊĊĊŦŦĠĊĀĂĠĊĊĊŦŦĠĊŦĠĊĠĠĠĀĠĠĀĠĠŦĀŦĊĀŦ	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	tcagagtaggactccacgagtacccggtggggtcgcaattaccttgcgagcccgaaccgg	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	acgtagccgtgttgacgtccatgctcactgatccctcccatataacagcagaggcggccg	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	ĠĠĀĠĀĀĠĠŤŤĠĠĊĠĀĠĀĠĠŤĊĀĊĊĊĊŤŤĊŤĀŤĠĠĊĊĀĠĊŤĊĊŤĊĠĠĊĊĀĠĊĊĀ	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	ccgctccatctctcaaggcaacttgcaccgccaaccatgactcccttgacgccgagctca	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCCGCCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	agaacaaagtggtgattctggactccttcgatccgcttgtggcagaggaggatgagcggg	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	aggtetecgtacecgcagaaattetgeggaagteteggagattegeeeggeeetgeeeg	7200
Query	7201	TCTGGGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	aaccacctgtggtccatggctgcccgctaccacctccacggtcccctctgtgcctccgc	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	ctcggaaaaagcgtacggtgtcctcaccgaatcaaccctatctactgccttggccgagc	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGGCCCGACTTCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620

Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	caggcgcactcgtcaccccgtgcgctgcggaagaacaaaaactgcccatcaacgcactga	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	ĠĊĂĂĊŤĊĠŤŤĠĊŤĂĊĠĊĊĂŤĊĂĊĂĂŤĊŤĠĠŤĠŤĂŤŤĊĊĂĊĊĂĊŤŤĊĂĊĠĊĀĠŤĠĊŤŤĠĊĊ	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
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Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861 7921	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG ACGTCCGTTGCCATGCCA	7920 7980
Query	7921	ACGICCGIIGCCAIGCCAGAAAGGCCGIAGCCCACAICAACICCGIGIGGAAAGACCIIC	7980
Sbjct Query	7921	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041		8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101		8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
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Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
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Sbjct	8281	cagtcactgagagcgacatccgtacggaggaggcaatttaccaatgttgtgacctggacc	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCACCCCCCCCCCCCCCCCCCCCC	8580 8640
Query Shict	8581 8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct Query	8641	CCGcccccccccacaCAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCCGGGGACCCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT  CCGCCCCCCCCGGGGACCCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCGTG	8760
zacry	J , J I		5,50

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Sbjct
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         8941
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                                                     9420
Sbjct
     9421
         9480
Query
         Sbjct
     9421
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    9481
Query
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                       9498
         III IIIIIII IIIITTTTTTTTTT
Sbjct
    9479
Score = 285 bits (154), Expect = 6e-73 Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus
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    9418
                                                     9474
Query
         9461
                                                     9519
Sbjct
Query
     9475
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                                                     9532
         9520
                                                     9579
Sbjct
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    9533
Query
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Sbjct
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Query
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>**gb|EA263001.1|** Sequence 1 from patent US 7235394 Length=9646

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

Score = 1.732e+04 bits (9379), Expect = 0.0
Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
Strand=Plus/Plus

Query	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	cccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020

Sbjct	961		1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021		1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081		1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141		1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCCAGGCGCCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261		1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGGGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	tcaccgggggaagtgccgcaccacggctgggcttgttggtctccttacaccaggcg	1560
Query	1561	CCAAGCAGAACATCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	ŤĠĂĂĊŤĠĊĂĂŤĠĂĂĂĠĊĊŤŤĂĂĊĂĊĊĠĠĊŤĠĠŤŤĂĠĊĂĠĠĠĊŤĊŤŤĊŤĂŤĊĂĠĊĂĊĂĂĂŤ	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGTTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160

Sbjct	2101		2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	caagcatcgcgtcctgggccattaagtgggagtacgtcgttctcctgttcctcctgcttg	2520
Query	2521	CAGACGCGCGCTCTGCTCGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CÁGACGCGCGCGTCTGCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct Querv	2701 2761	TCTACGCCTTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCTGCTTGCT	2760 2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGGCTCAACGTCC	2940
Sbjct	2881		2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	cctatgtgtataaccatctcacccctcttcgagactgggcgcacaacggcctgcgagatc	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300

Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
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Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	cctcggacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccgacgtg	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
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Sbjct	3841	grccgcrgrtgrgccccgcgggacacgccgrgggccrarrcagggccgcgcgrgrgcaccc	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	ccccggtgttcacggacaactcctctccaccagcagtgccccagagcttccaggtgccc	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440

Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
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Sbjct	4561	TGGTCGCATTGGGCCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
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Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	ĠĊĊĊĊĊĊĠĠĊĂŢĠŢŢĊĠĂĊŢĊĠŢĊĊŢĊŢĠŢĠĀĠŢĠĊŢĂŢĠĀĊĠĊĠĠĠĊŢĠŢĠĊŢŢ	4920
Query	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	ggtatgagctcacgcccgccgagactacagttaggctacgagcgtacatgaacaccccgg	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
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Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
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Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	ŤĊŤŤĠŤĊĊĠĠĠĂĂĠĊĊĠĠĊĂĂŤŤĂŤĂĊĊŤĠĂĊĀĠĠĠĂĠĠŤŤĊŤĊŤĂĊĊĂĠĠĀĠŦŤĊĠĂŤĠ	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AĞATĞĞAAĞAĞTĞCTCTCAĞCACTTACCĞTACATCĞAĞCAAĞĞĞATĞATĞCTCĞCTĞAĞC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580

Sbjct	5521	AGTTCAAGCAGAAGCCCCCCGCCCCCCCCCCCCAAGCAGAGCTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
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Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
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Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTCAACATATTggggggGGGGGGCGCCCCAGCTCGCCGCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGGTGGCTGGCCCAGCTCGCCGCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	ccgcctttgtgggcgctggcttagctggcgccgccatcggcagcgttggactggggaagg	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	rccrcgrggacarrcrrgcagggrarggcgcgggcgrggcgggagcrcrrgragcarrca	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
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Sbjct	6001	tctcgcctggagcccttgtagtcggtgtgtctgcgcagcaatactgcgccggcacgttg	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	gcccggcgaggggcagtgcaatggatgaaccggctaatagccttcgcctcccggggga	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TÁCTCÁGCAGCCTCACTGTAACCCÁGCTCCTGÁGGCGÁCTGCÁTCÁGTGGÁTAÁGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TĠĊŢĠĂĠĊĠĂĊŢŢŦĀĀĠĂĊĊŢĠĠĊŢĠĂĀĀĠĊĊĀĀĠĊŢĊĀŢĠĊĊĀĊĀĀĊŢĠĊĊŢĠĠĠĀŢŢĊ	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	ĊŢĊĠĊŢĠĊĊĂĊŢĠŢĠĠĂĠĊŢĠĀĠĂŢĊĂĊŢĠĠĂĊĀŢĠŢĊĀĀĀĀĀĊĠĠĠĀĊĠĀŢĠĀĠĠĀŢĊĠ	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	cĠĠĠĊĊĊĊŢĠŢĸĊŢĊĊĊŢŢĊĊŢĠĊĠĊĠĸĸĊŢĸŢĸĸĠŢŢĊĠĊĠĊŢĠŢĠĠĠĠŢĠŢĊŢĠ	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	cagaggaatacgtggagataaggcgggtggggacttccactacgtatcgggtatgacta	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720

~1 l .			6800
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGAGGAGGAGGTATCAT	6780 6840
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
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Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
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Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	6960
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Query		TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	
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Query	7081 7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
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Query Sbjct	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
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Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
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Sbjct	7381		7440
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Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
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Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
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Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
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Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
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Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
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Query	8401 8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460 8460
Sbjct Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
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Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
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                                                          9420
Query
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                                                          9420
Sbjct
Query
     9421
          t this titt to this to the this to the total to the total to a this continue to the total total total total to
                                                          9480
          Sbjct
     9421
          9478
     9481
                         9498
Query
          titettttteeettottt
          TTT-TTTTTCCTTTTTT
     9479
                         9495
Sbjct
Score = 285 bits (154), Expect = 6e-73 Identities = 177/187 (94%), Gaps = 6/187 (3%)
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Ouerv
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          Sbjct
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                                                          9519
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Query
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>emb|CS541301.1|
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                                            Sort alignments for this subject se
                                             E value Score Percent identity
                                             Query start position Subject sta
Score = 1.732e+04 bits (9379), Expect = 0.0 Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
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Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Sbjct	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120
Query	121	cccccTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121	CCCCCCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	ĠĊŔĸĠĸĊŦĠĊŦĸĠĊĊĠĸĠŦĸĠŦĠŦŦĠĠĠŦĊĠĊĠĸĸĸĠĠĊĊŦŦĠŦĠĠŦĸĊŦĠĊĊŦĠĸŦĸĠĠ	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	gráctráckádátkozókádákátótádákótátkádátótádákótádótádótádótádótádótádótádótádótádótád	360
Query	361	CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	ctcaaagaaaaaccaaacgtaacaccaaccgtcgcccacaggacgtcaagttcccgggtg	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	cgtgcggcttcgccgacctcatggggtacataccgctcgtcggcgcccctcttggaggcg	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	ĊŢĠĊĊĀĠĠĠĊĊĊŢĠĠĊĠĊĀŢĠĠĊĠŢĊĊĠĠĠŢŢĊŢĠĠĀĀĠĀĊĠĠĊĠŢĠĀĀĊŢĀŢĠĊĀĀĊĀĠ	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	ggaacctrectggttgctctrtctctatcttccttctggccctgctctttgcctgactg	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081		1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200

Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŦĂŦĊŦĂŦĊĊĊĠĠĊĊĂŦĂŦĂĂĊĠĠĠŦĊĂŦĊĠĊĂŦĠĠĊĂŦĠĠĠĂŦĂŦĠĂŦĠĂĀĊŦĠĠŦ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	ĊĊĊĊŤĂĊĠĠĊĂĠĊĠŤŤĠĠŤĠĠŤĂĠĊŤĊĂĠĊŤĠĊŤĊĊĠĠĂŤĊĊĊĂĊĂĂĠĊĊĂŤĊĂŤĠĠĀĊĀ	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTTTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860 1920
Query	1861	ATTGCTTCACTCCCAGCCCGTGGTGGTGGGAACGACCGAC	
Sbjct	1861 1921	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920 1980
Query Sbict	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1921	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101		2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		2340
-			

Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	rigit ce a ce	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	ĊĊĠĠĊĊŢĊĂŢĊĊĀĊĊŢĊĊĀĊĀĠĀĀĊĀŢŢĠŢĠĠĀĊĠŢĠĊĀĠŢĀĊŢŢĠŢĀĊĠĠĠĠŢĀĠĠĠŢ	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	ĊAAĠĊATĊĠĊĠŦĊĊŦĠĠĠĊĊAŦŦAAĠŦĠĠĠAĠŦAĊĠŦĊĠŦŤĊĊŦĠĊŦĠĊŦĠĊŦŦĠ	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	ĊĀĠĀĊĠĊĠĊĠĊĠŤĊŤĠĊŤĊĊŤĠĊŤŤĠŤĠĠĀŤĠŤŤĀĊŤĊĀŤĀŤĊĊĊĀĀĠĊĠĠĀĠĠĊĠĠ	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŢŢŢĠĠĠĠĠĠĊŢĊĠŢĠĠŢĊŢĊĠĠĊĠĠĠĠĊĠĊĠĠĠŢĊŢŢĠŢĠŢ	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	ĊĊŦŦĊĊŦĊĠŦĠŦŦĊŦŦĊŦĠĊŦŦŦĠĊĠŦĠĠŦĂŦĊŦĠĂĂĠĠĠŦĀĠĠŦĠĠĠĊĠĠĀĠĊĠĠ	2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	tctacgccttctacgggatgtggcctctcctcctgctcctgctgctgccttcagcgg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	ĊĂŦĂĊĠĊĀĊŦĠĠĀĊĀĊĠĠĀĠĠŦĠĠĊĠĊĠŦĊĠŦĠŦĠĠĠĠĠĠŦŦĠŦŦĊŦŦĠŦĊĠĠĠŦŦĀĀ	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	rggcgcrgactcrgtcgccatattacaagcgctacatcagctggrgcatgrggcttc	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccctCAACGTCC	2940
Sbjct	2881	agtattitctgaccagagtagaagcgcaactgcacgtgtgggttcccccctcaacgtcc	2940
Query	2941	gggggggCGCGATCCCTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ĠĠĠĠĠĠĠĠĠĠĊĠĊĠĸĠĊĊĠŦĊĸŦĊŦŦĸĊŦĊĸŦĠŦĠŦĠŦĸĊĸĊĊĠĸĊŦĊŦĠĠŦĸŦŦŦĠ	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	ttaaagtcccctacttcgtgcgcgttcaaggccttctccggatctgcgcgctagcgcga	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	ÁGÁTÁGCCGGÁGGTCÁTTÁCGTGCÁÁÁTGGCCÁTCÁTCÁÁGTTÁGGGGCGCTTÁCTGGCÁ	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TĠĠĊĊĠŦĠĠĊŦĠŦĠĠAAĊĊĀĠŦĊĠŦĊŦŤĊŦĊĊĊĠAAŦĠĠĀĠAĊĊĀĀĠĊŦĊĀŤĊĀĊĠŦĠĠĠ	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	gggcagataccgccgcgtgcggtgacatcatcaacggcttgcccgtctctgcccgtaggg	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACTGGTCTCCAAGGGGTTGAGGTTGCTGG	3420
Sbjct	3361	gccaggagatactgcttgggccagccggaatggtctccaaggggtggaggttgctgg	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480

Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	ÁÁÁCCTTCCTGGCÁÁCGTGCÁTCÁÁTGGGGTÁTGCTGGÁCTGTCTÁCCÁCGGGGCCGGÁÁ	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct Querv	4021 4081	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC  AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4080 4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141		4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbict	4201		4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261		4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321		4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381		4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561		4620

guery         4521         CGCCCAGCGGGATTTTTCCGTCGTCGACCGATTCTTTACTGGCTTTACCGGCTTTACCGGCT         4680           Spjet         4621         CGCCAGCGGGGTTTTTCCGTCGTCGACCGATTGCTCTTGATTGGCTTTACCGGCTT         4740           Spjet         4681         ACTITGACTCTGTTGATTGACTGCGACACCGTGTGCTGCACCTAGACAGCAGTGCTTTACCGCTTC         4740           Spjet         4741         ACCCTACCTTTACCATTGAGACCACCTCTCCTCCACGAGATGCTGTTCTCAGGACTCAAC         4800           Sbjet         4741         ACCCTACCTTTACCATTGAGACCAACCACCTCCCCCAGGATGGTTCTCAGGACCCACC         4800           Sbjet         4801         GCCGGGGAGGACTGGCAGGGGGAACCCAGCGCATCACCCCCCCGAGGACTGGTGCTT         4800           Sbjet         4801         GCCCGCCGAGCATTGCGAGGGGGAACCTGACCCTCCCCCAGGATTTTGACGCCCGGGGGGAC         480           Sbjet         4801         GCCCGTCCGGCATGTTTGCAGTGTGCTTTTGTGAGTCTGTGTGTTTTGAGGCTGACCGGGGGAGCTTGCATTGCAGCCCGCGAGGATTCAGTTTGAGTGTGTGT				
Spict         4621         CéaccaseSecsateTeTGGTCGTSTCGACCATGCTTCATGACTGGTTTACCGGCC         4740           Ouery         4681         ACTTCGACTCTGGATAGACTGCAACACGTGTGTACACACAGAGTGCATTTCAGCCTTG         4740           Spict         4681         ACTTCGACTCTGATAGACTGCAACACGTGTGTGTCACCACAGAGTGCTTTCAGCCTTG         4740           Query         4741         ACCCTACCTTTACCATTGAGACACCGTCCCCCAGGAGTGCTGTCTCAGGACTCACAC         4800           Spict         4741         ACCCTACCTTTACCATTGAGACACCGCTCCCCCAGGAGTGCTGTCCAGGAGTGCACCCGGGGGACC         4861           Spict         4801         ACCCGGGCACGACTGGCAGGGGGGAACCCAGGCATTTACAGATTTGGCACCCGGGGGACC         4862           Spict         4861         ACCCTCCGGCATGGCAGGGGGAACCCAGGCATTTACAGATTTTGGCACCCGGGGACCC         4920           Query         4921         GGTATGAGCTCACCCCCCCGAGACTACAGTTACAGTTACAGATAGACACCCCGG         4920           Spict         4921         GGTATGAGCTCACCCCCCCCCAGACTACAGTTACAGTTACAGTAGAGGGTACATGAACACCCCGG         4980           Query         4981         GGTATGAGCTCACCCCCCCCCCAGACTACAGTTACAGTTACAGTACAGGGGTACAAGTCAACCCCTACCC         5040           Spict         5041         ATATAGATGCCACCTTTTATCCCAGACAAGCAGAGGGCGTCTTTACAGGGCGTACATCTACACTTACAGGCCACCTACACCCCTCACCCTACTCACCCTACTCACCCTACTA	Query	4621		4680
Sejet         4681         ACTTCGACCTTGTGATAGACTGCAACAGTGGTGTGTCACAGACAG	Sbjct	4621		4680
Sbjet         4681         ACCTROCATTGACACCAGCACACCACTTCACCACACACCTTTACCACTACACACAC	Query	4681		4740
Sbjet         4741         ACCCTACCTITACCATTEGAGCAACCGGGTGCCGGGGAGTCTTTCCAGGGCTCACC         4800           Query         4801         GCCGGGGCAGGACTGGCAGGGGGAGCCAGGCATCTATAGATTTGTCGCACCCGGGGACC         4860           Sbjet         4801         GCCGGGGCAGGACTGGCAGGGGGAGCCAGGCATCTATAGATTTGTGGCACCGGGGACC         4860           Query         4861         GCCCGTCCGGCATGTTCGACTGGTCCGTCCTCTGTGAGTGCTATGACGGGGCTGTCTT         4920           Sbjet         481         GCCCCTCCGGCATGTTCGACTGGTCCGTCCTCTGTGAGTGCTATGACGGGGCTGTCTT         4920           Query         4921         GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGTCAGAGCGACACTATTAGGTCACAGTAACACCCCCG         4980           Sbjet         4981         GGCTTCCCGGTGTCCAGGACCACTCTTAATTTGGGAGGCGCTCTTTAGGGGCCTCACTC         5040           Query         4981         GGCTTCCCGTGTTCCAGGACCACTCTTAATTTGGGAGGCGCGTCTTTACGGGCCTCACTC         5040           Query         5041         ATATGGATGCCCACTTTTATCCCAGACAAACCAGAGTGGGAGAACTTTTCCTTTACTCTGG         5100           Sbjet         5041         ATATGGATGCCCACTTTTATACCAGACCAAACCAGAGTGGGAGAACTTTTCCTTTACTTGG         5100           Query         5101         TAGCGTACCAAGCCACCGTGTGCCCTAAGGCCTCAAACCCCTCCCCCATCGTGGGACCAGA         5160           Query         5101         TAGCGTACCAAGCCACCGTGTGCCCTAAACCCCTCATGGGCCAACCCCTGCTATACA         5220           Bbjet         5101         TAGCGATCTTGA	Sbjct	4681		4740
Query         4801         GCCGGGGCAGGACTGGCAGGGGGAGACCAGGCATCTATAGATTTGTGCCACCGGGGGACC         480           Sbjct         4801         GCCGGGGCAGGACTGGCAGGGGAGACCAGGCATCTATAGATTTGTGGCACCGGGGGACC         4860           Query         4861         GCCCCTCCGGCATGTTCGACTCGTCCTCTGTGTGAGTGCTATGACGCGGGCTCTCTT         4920           Sbjct         4861         GCCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACGCGGGCTGTCTT         4920           Cuery         4921         GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCCATACAGTAGACACCCCG         4980           Sbjct         4981         GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGGGTCTTTACGGCCTCACTC         5040           Sbjct         4981         GCCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGGGGGTCTTTACGGGCCTCACTC         5040           Cuery         5041         ATATGGATCCCCACTTTTATACCCAGACCAAGCCAAGGGGGGGG	Query	4741		4800
Sbjet         4801         GCCGGGCAGGGATGTTGGACTGGTGTACAGATTTGGGCACCGGGGGAC         4861           Query         4861         GCCCCTCCGGCATGTTCGACTGTCGTCCTCTGTGAGTGCTATGACAGGTGTGTT         4920           Sbjet         4861         GCCCCTCCGGCATGTTCGACTGTCGTCCTCTGTGAGTGCTATGACCGGGGGTGTGCTT         4920           Ouery         4921         GGTATGAGCTCACGCCCCCCGAGACTACAGTTAGGTTCAGACCGCGCTACATGAACACCCCG         4980           Sbjet         4921         GGTATGAGCTCAGGCCCCCCCAGGACTACAGTTAGGCTACCAGCGTACATGAACACCCCGG         4980           Query         4981         GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC         5040           Sbjet         4981         GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC         5040           Query         5041         ATATACATGCCCACTTTTTATCCCAGACAAACCACGTGGGGGAGAACTTTCCTTACCTGG         5100           Sbjet         5041         ATATACATGCCCACTTTTTATCCCAGACAAACCACCTCTCCCCCATGTGGGAACCACAC         5100           Query         5161         TAGCGTACCAAGCCACCTGTAGGCCTAGGACCCAACCCCCTACCCCATTACCA         520           Sbjet         5161         TAGCGAACCACACCTGTAGGACCACACCCCTACCCCATCCCATTACAC         520           Query         5161         TAGCGAACCACCTTCAGAACCACCCTCCATCCATGGGCCAACACCCCTATTACCA         520           Sbjet         5221         GACTGGGCGCTGTTCAGAATGAGGACCCCTCCATGGGCCACCCAATCACCAAATA	Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query         4861         GCCCCTCGGGCATGTTCGACTGGTCGTCTGTGTGAGTGGTTTGAGCGGGGGTGTGGTT         4920           Sbjet         4861         GCCCCTCGGGCATGTTCGACTGTCCGTCTTGTGAGTGCTATGAGCGGGGTGTGTT         4920           Query         4921         GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACGAGGGTACATGAACACCCGG         4980           Sbjet         4921         GGTATGAGCTCAGCCCGCCGAGACTACAGTTAGGCTACAGGTACATGAACACCCGG         4980           Query         4981         GGCTTCCCGTGTGCCAGGACCACTCTTGAATTTTGGGAGGGGCTCTATCAGGGCCTCACCC         5040           Sbjet         4981         GGCTTCCCGTGTGCCAGGACCACTCTTGAATTTTGGGAGGGGGGGAGACTTTCCTTACCTGG         500           Sbjet         5041         ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGGTGGGGGAGAACTTTCCTTACCTGG         5100           Sbjet         5041         ATATAGATGCCCACTTTTTATCCCAGACAAAGCCACCTCCCCCCACTCGTGGGAACACAC         5100           Sbjet         5101         TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTAAGCCCCTCCCCCATCGTGGGACCACA         5160           Sbjet         5101         TAGCGTACCAAGCCACCGTGTGCGCTAGAGCCCCTCCACCCCACCCTCCCCCATCGTGGGACCACA         5160           Cuery         5101         TAGCGTACCAAGCCACCGTGTTCAGACCCCTCTAAACCCCCTCCCCCCCC	Query	4801		
Sbjet         4861         GCCCCCGGCATGTTCGACTGGTGTGTGTGTGTGTGTGTGT	_	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	
Query         4921         GGTATGAGCTCACGCCCGCGGAGCTACAGTTAGGCTACGAGCGTACATGAACACCCCGG         4980           Sbjet         4921         GGTATGAGCTCACGCCCGCCGGAGCTACAGTTAGGCTACAGGTACATGAACACCCCGG         4980           Query         4981         GGCTTCCCGTGTGCCCAGGACCATCTTGAATTTTGGGAGGGCGTCATTTAGGGGCCTCACTC         5040           Sbjet         4981         GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGGCCTCACTC         5040           Query         5041         ATATAGATGCCCACTTTTTATCCCAGGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG         5100           Sbjet         5041         ATATAGATGCCCACTTTTTATCCCAGACAAAGCCAGAGTGGGGAACACTTTCCTTACCTGG         5100           Query         5101         TAGCGTACCAAGCCACCGTGTGCCCTAGGCCTCAAGCCCCTCCCCCATCGTGGGACCAGA         5160           Sbjet         5101         TAGCGTACCAAGCCACCGTGTGCCCTTAGACCCACCCTCCCCCCATCGTGGGACCAGA         5160           Query         5161         TGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCCAACACCCCTGCTATACA         5220           Query         5221         GACTGGGCGCTGTTCAGAATGAACTCACCTGACGCCCCAAACACCCCTGCTATACA         5280           Sbjet         5221         GACTGGGCCGTTCAGAATGAACTCACCTGACGCACCCAAATCACCCAAATCACCAATCACA         5280           Query         5281         CATGCATGTGGCCGGACCTGGAGGTCACCACCTGGAGCCACCCCATTACCGTATACCACAATCACCAATCACACACTGCACCACCTGCACCACCTGCACCACCTGCACCACCTCCACCACCTGTACCACCACCTCCACCACCACCTGCACCACCACCTGCACCACCACCACCACCAC				
Sbjet         4921         GGTATGAGCTCACGCCCCCCGAGACTACAGTTAGGCTACAGCATCACGATCACACCCCGG         4980           Query         4981         GGCTTCCCGTGTGCCCAGGACCATCTTGAATTTTGGGAGGGGGTGTTTAGGGGCCTCACTC         5040           Sbjet         4981         GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGGGTGTTTAGGGGCCTCACTC         5040           Query         5041         ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGGGGGGGAGAACTTTCCTTACCTGG         5100           Sbjet         5041         ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAACAACTTCTTACCTGG         5100           Query         5101         TAGCGTACCAAGCCACCGTGTGCCCTAAGGCCCTCCCCCCATCGTGGGACCAGA         5160           Sbjet         5101         TAGCGTACCAAGCCACCGTGTGCCCTAAGGCCCTCCCCCCATCGTGGACCAGA         5160           Query         5161         TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA         5220           Sbjet         5161         TGTGGAAGTGTTTGATCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA         5220           Query         5221         GACTGGGCCGTGTTCAGAATGAACTCACCCTGACGCACCCAATCACCAAATACATCATGA         5280           Sbjet         5221         GACTGGGCCGTGTTCAGAATGAACTCACCCTGACGCACCCAATCACCCAAATACATCATGA         5280           Query         5281         CATGCATGTGGCCGGACCTGGAGGCTGCACGCACCTGGTCCTGTCTGCACCACCTGCACCTCCTGCACCACCTGCACCTCCTGCCACCACTCACCACCTTCACCACTTACCTGCACCACCTTCACCACTTCACCACTTCACCAGGAGTTCCATATGTGGCCACGACTTCACCTACCACTCACCACTTC	_	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	
Ouery         4981         GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGAAGGGCGTCTTTACGGGCCTCACTC         5040           Sbjct         4981         GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGAAGGGCGTCTTTACGGGCCTCACTC         5040           Query         5041         ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG         5100           Sbjct         5041         ATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG         5100           Query         5101         TAGCGTACCAAGCCACCTTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA         5160           Sbjct         5101         TAGCGTACCAAGCCACCTGTGGGCTTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA         5160           Query         5161         TGTGGAAGTGTTGATCCGCCTTAAACCCACCCTCCCCCATGGGGCCAACACCCCTACTACACA         520           Sbjct         5161         TGTGGAAGTGTTTGATCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA         520           Query         5221         GACTGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATACA         520           Sbjct         5221         GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACCCACCC	_	-		
Sbjet         4981         GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGCGTCTTTACGGGCCTCACTC         5040           Query         5041         ATATAGATGCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG         5100           Sbjet         5041         ATATAGATGCCACTTTTATCCCAGACAAAGCAGGTGGGGAGAACTTTCCTTACCTGG         5100           Query         5101         TAGCGTACCAAGCCACGTGTGCGCTAGGGCTCAGGTGGGACCACTCCTCCCCATCGTGGGACCAGA         5160           Sbjet         5101         TAGCGTACCAAGCCACGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA         5160           Query         5161         TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATCGTGGGACCAGA         5220           Sbjet         5161         TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTCGATACAC         5220           Wery         5221         GACTGGCGCTGTTCAGAATGAAGTCACCCTTGACGCACCCAACACCCCTCCATATACA         5220           Sbjet         5221         GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCCAATCACCAAATACATAGA         5280           Sbjet         5281         CATGCATGTCGGCCGCGACTTGACGACCCTGACGCCCCCACATCACCCAAATACACAATACATAGA         5280           Sbjet         5281         CATGCATGTCGGCCGCACTTGAGGTCTCCACGACCCCACCCA	_			
Query         5041         ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGGGGGAGAACTTTCCTTACCTGG         5100           Sbjet         5041         ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGGGGAGAACTTTCCTTACCTGG         5100           Query         5101         TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA         5160           Sbjet         5101         TAGCGTACCAAGCCACCGTGTGGCTTAGGCTCAAGCCCCTCCCCATCGTGGGACCAGA         5160           Query         5161         TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA         5220           Sbjet         5161         TGTGGAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACA         5220           Query         5221         GACTGGGCGTGTTCAGAATGAACTACCCACTGCGCCCAACCACCCCAATCACCAAATACATATGA         5280           Sbjet         5221         GACTGGGCGTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATATGA         5280           Sbjet         5281         CATGCATGTCGGCGGACCTGGAGGTCCTCACGACCACCTGGTGTCTGTTGGCGGCGTC         5340           Sbjet         5341         TGGCTGCTCTGGCCGCGACTTGCTCTCACAGAGCACCTGGGTGCTCTTTGGCGGCGCTC         5340           Query         5401         TCTTGTCCCGGAACCCGGAATTTGCTTCTAACAGGCTGGGTCATATGTGGGCAGAGTTC         5400           Sbjet         5401         TCTTGTCCCGGGAACCCGGCAATTTACCTTCAACAGGCTGGTGTGTGT	_			
Sbjet 5041 ATATAGATGCCACTTTCTATCCCAGACAAAGCAGAGGGGGAGAACTTTCCTTACCTGG 5100 Query 5101 TAGCGTACCAAGCCACCGTGTGGCCTAGGGCTCAAGCCCCCCCATCGTGGGACCAGA 5160 Sbjet 5101 TAGCGTACCAAGCCACCGTGTGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA 5160 Query 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCCCCATCGTGGGACCAGA 5220 Sbjet 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGGCCAACACCCCTGCTATACA 5220 Query 5221 GACTGGGCGCTTCAGAATGAAGCCACCCTCCATGGGCCAACCCCTGCTATACA 5220 Query 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACCCACCC	_			
Query         5101         TAGCGTACCAAGCCACCGTGTGCGCTAAGGCCCTCCCCCATCGTGGGACCAGA         5160           Sbjet         5101         TAGCGTACCAAGCCACCGTGTGCGCTAAGGCCCTCCCCCATCGTGGGACCAGA         5160           Query         5161         TGTGGAAGTGTTTGATCCCCCTTAAACCCACCTCCATGGGGCCAACACCCCTGCTATACA         5220           Sbjet         5161         TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA         5220           Sbjet         5221         GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCCCCAATCACCAAATACATCATA         5280           Sbjet         5221         GACTGGGCCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATA         5280           Query         5281         CATGCATGTCGGCCGACCTGGAGGTCGTCAGAGCACCCAATCACCAAATACATCATCATA         5280           Sbjet         5281         CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCTAGGTGCTCGTTGGCGCGGCTC         5340           Sbjet         5281         CATGCATGTCGGCCGACCTGGAGGTCTCACGACCACCTGGGTGCTCTGTGGCGCGCTC         5340           Query         5341         TGGCTGCTCTGGCCGCGTATTGCCTGTACAGAGGCTGGTGTCATAGTGGGCAGGATTG         5400           Sbjet         5341         TGGCTGCTCTGGCCGCGTATTGCCTGTAACAGGCTGGTGGTCATAGTGGGCAGGATTG         5400           Query         5401         TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGGTTCTTAACCAGGAGTTCGATG         5460           Sbjet         5461         AGATGGAAGAGTGCTCTCAGCACTTACCGTACATC	_			
Sbjet 5101 TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGA 5160 Query 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA 5220 Sbjet 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA 5220 Query 5221 GACTGGGCGCTTTCAGAATGAAGTCACCCTGATGGCCAACACCCCTGCTATACA 5220 Query 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGACCCCAATCACCAAATACATCATGA 5280 Query 5281 CATGCATGTCGGCCGACCTGAGGGCACCCAATCACCAAATACATCATGA 5280 Sbjet 5281 CATGCATGTCGGCCGACCTGGAGGTCCTCACGAGCACCCAATCACCAAATACATCATGA 5280 Query 5341 TGGCTGCTCTGGCCGCGACCTGGAGGTCCTCGTGGCGGCGCTCC 5340 Sbjet 5341 TGGCTGCTCTGGCCGCGACTTGACACAGGCACCCTGGTGGCTGCTGTGGCGGCGCTC 5340 Query 5401 TGTGTCCGGGAAGCCCGGAATTACCTGAACAGGCTGGTGTCATAGTGGGCAGGATTG 5400 Sbjet 5401 TCTTGTCCGGGAAGCCGGCAATTATACCTGAACAGGCTGCGTGGTCATAGTGGGCAGGATT 5400 Query 5401 TCTTGTCCGGGAAGCCGGCAATTATACCTGAACAGGCTGCTGTGTCACAGGAGTTCGATG 5400 Query 5401 TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATG 5400 Query 5401 TCTTGTCCGGGAAGCCGCCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATG 5400 Query 5401 AGATGGAAGAGGCCGCCAATTATACCTGACAGGGAGGATTCACACAGGAGTTCGATG 5500 Query 5521 AGTTCAAGCAGAAGGCCCTCTGCCTTGCCAGACCAGCAAGGGATTACACAGGAGTTACAC 5580 Query 5521 AGTTCAAGCAGAAGGCCCTCTGCCTCTGCAGACCGCCCCCCATGCAGAGGTTATAC 5580 Query 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGAGGATTATTAC 5580 Sbjct 5521 AGTTCAAGCAGAAGGCCCTCCGGCCTCCTGCAGACCGGCTCCCGCCATGCAGAGGTTATCA 5580 Query 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGAGGTTATTCA 5580 Sbjct 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGGCTCCCGCCATGCAGAGGGTTATCA 5580 Query 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGAGGAACACATGTGGA 5640 Sbjct 5581 CCCCTGTGTCCAGACCAACTGGCAGAAACTCGAGGAGAACCACTGTGGA 5640 Sbjct 5641 ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACCGCTGCCTGGCAAGCAA	_			
Query5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Sbjet5161TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA5220Query5221GACTGGGCGTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA5280Sbjet5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA5280Query5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCCACCCAATCACCAAATACATCATGA5280Sbjet5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGGCGCTC5340Sbjet5281CATGCATGTCGGCCGACCTGGAGGTCGTCACAGAGCACCTGGGTGCTCGTTGGCCGGCGCCC5340Sbjet5341TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCTGGTGTCATAGTGGGCAGGATCG5400Sbjet5341TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCTGGTGCTCATAGTGGGCAGGATTG5400Query5401TCTTGCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCCATG5460Sbjet5401TCTTGCCGGGAAGCCGGCAATTATACCTGACAGGCAGGAGGTTCTCTACCAGGAGTTCCATG5460Query5461AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC5520Sbjet5461AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC5520Sbjet5521AGTTCAAGCAGAAGGCCCTCCTGCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC5580Query5581CCCCTGCTGTCCAGACCAACTGGCAGAACTCGGGGCCCCCCCC	_			
Sbjet 5161 TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGCCAACACCCCTGCTATACA 5220 Query 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCCACCCAACTACCAAATACATCATGA 5280 Sbjet 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA 5280 Query 5281 CATGCATGTCGGCCGGCTGTCAGAATGAAGTCACCCAACCCCAATCACCAAATACATCATGA 5280 Sbjet 5281 CATGCATGTCGGCCGGCCTGAGGGTCGTCACGAGCACCCCAATCACCAAATACATCATGA 5280 Query 5341 TGGCTGCTCGGCCGGCCTGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC 5340 Sbjet 5341 TGGCTGCTCTGGCCGGCTTGCCACGAGGCACCTGGGTGCTCATGGCGGCGTCC 5340 Sbjet 5341 TGGCTGCTCTGGCCGCGCTATTGCCTGTCAACAAGGCTGCGTGGTCATAGTGGGCAGGATCG 5400 Query 5401 TCTTGTCCGGGAAGCCCGCAATTAATACCTGAACAGGCTGCGTGGTCATAGTGGGCAGGAATTGATG Sbjet 5401 TCTTGTCCGGGAAGCCGGCAATTAATACCTGACAGGAGGTTCCTTCACCAGGAGTTCGATG 5460 Query 5461 AGATGGAAGAGCCGGCAATTATACCTGACAGGAGGAGGATGATGCTCGAGC 5520 Sbjet 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520 Query 5521 AGTTCAAGCAGAAGGCCCTCAGCCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520 Query 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCACTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520 Query 5581 CCCCTGCTGTCCAGACCTACCGTACATCGAGACCAAGGGATTATCA 5580 Query 5581 CCCCTGCTGTCCAGACCACTTACCGTACAGAGCACTCGCCCCAAGCAAG	_			
Query5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAATACATCATGA5280Sbjet5221GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAATACATCATGA5280Query5281CATGCATGTCGGCCGACCTGGAGGTCCTCAGCACCCAATCACCAATACATCATGA5280Sbjet5281CATGCATGTCGGCCGACCTGGAGGTCACCAGACCCTGGGTGCTGGTGGCGGGTCC5340Sbjet5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCTGTGGCGGCGTCC5340Query5341TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG5400Sbjet5341TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG5400Query5401TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCCTACCAGGAGTTCGATG5400Sbjet5401TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGTTCTACCAGGAGTTCGATG5460Query5461AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC5520Sbjet5461AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC5520Query5521AGTTCAAGCAGAAGGGCCTCCGGCCTCCTGCAGACCGGCTCCCGCCATGCAGAGGGTTATCA5580Sbjet5521AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGGCTCCCGCCAAGCAAG	_			
Sbjet 5221 GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA 5280  Query 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCAGGAGCACCTGGGTGCTCCTTGGCGGCGTCC 5340  Sbjet 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC 5340  Query 5341 TGGCTGCTCTGGCCGCGCTATTGCCTGTCAACAGGCTGCTGGTGTCATGTGGGCGAGTCG 5400  Sbjet 5341 TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG 5400  Query 5401 TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGCTGCTGGTCATAGTGGGCAGGATTG 5400  Sbjet 5401 TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTAACCAGGAGTTCGATG 5460  Sbjet 5401 TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCGATG 5460  Query 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACAATCGAGCAAGGGATGATGCTCGATGG 5520  Query 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520  Query 5521 AGTTCAAGCAGAAGGCCCTCCTGCAGACCGCTCCCGCCAAGCAGGGATTATAC  Sbjet 5521 AGTTCAAGCAGAAGGCCCTCCTGCAGACCCGCTCCCGCCAAGCAGGGATTATAC  Sbjet 5581 CCCCTGCTGCCAGACCACTTACCGTACATCGAGCCAAGGGATGATACA 5580  Query 5581 CCCCTGCTGCCAGACCAACTGGCAGAAACTCCGAGGCCTTTTTGGGCGAAGCACATGTGGA 5640  Query 5641 ATTTCATCAGTGGGATACAATACTTGGCGGGCCTTCTAACGCTGAACCCCTCGCCAAGCAAG	_			
Query5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC5340Sbjct5281CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC5340Query5341TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCTGGTCATAGTGGGCAGGATCG5400Sbjct5341TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG5400Query5401TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTTCTTACCAGGAGTTCGATG5460Sbjct5401TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTTCTTACCAGGAGTTCGATG5460Query5461AGATGGAAGAGGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGATG5460Query5461AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC5520Query5521AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCAGCGGTCCCGCCAAGCAGAGGTTATCA5580Sbjct5521AGTTCAAGCAGAACGCCCTCGGCCTCCTGCAGACCGCTCCCGCCAAGCAGAGGTTATCA5580Query5581CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGCTCTCTTTTGGGCGAAGCACATGTGGA5640Query5641ATTTCATCAGTGGGATACAATACTTGGCGGGCCTTCTTGGGCGAAGCACATGTGGA5640Query5641ATTTCATCAGTGGGATACAATACTTGGCGGGCCTTCTAACGCTGCTGGTAACCCCGCCA5700Sbjct5641ATTTCATCAGTGGGATACAATACTTGGCGGGCCTTCTAACGCTGCTGGTAACCCCGCCA5700Sbjct5641ATTTCATCAGTGGGATACAATACTTGGCGGGCCTTCTAACGCTGCCTGGTAACCCCGCCA5700Sbjct5641ATTTCATCAGTGGGATACAATACTTGGCGGCCTTGTCAACGCTGCTGGTAACCCCGCCA5700Sbjct5641ATTTCATCAGTGGGATACAATACTTGGCGGCCTTGTCAACGCTGCCTGGTAACCCCGCCA5700	_	-		
Sbjct 5281 CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC 5340  Query 5341 TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG 5400  Sbjct 5341 TGGCTGCTCTGGCCGCGTATTGCCTGCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG 5400  Query 5401 TCTTGTCCGGCAGCCAATTATACCTGACAGGGTGGTCATAGTGGGCAGGATTG 5400  Sbjct 5401 TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGTGGTCATAGTGGGCAGGATTG 5460  Query 5461 AGATGGAAGAGCCGGCAATTATACCTGACAGGGAGGTTCCTTACCAGGAGTTCGATG 5460  Query 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520  Sbjct 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520  Query 5521 AGTTCAAGCAGAAGAGCCCTCGGCCTCCTGCAGACCGCATGCAAGCAGGGTTATCA 5580  Sbjct 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCTCCCGCCAAGCAGAGGTTATCA 5580  Query 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA 5640  Query 5641 ATTTCATCAGTGGGATACAATCTGGCGGGCCTGTCAACGCTGCCGCCAAGCAAG	_	-		
Query5341TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG5400Sbjct5341TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCTGGTCATAGTGGGCAGGATTG5400Query5401TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCCTACCAGGAGTTCGATG5460Sbjct5401TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCCTACCAGGAGTTCGATG5460Query5461AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC5520Sbjct5461AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC5520Query5521AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA5580Sbjct5521AGTTCAAGCAGAACGACCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA5580Query5521AGTTCAAGCAGAACGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA5640Sbjct5581CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTTGGGCGAAGCACATGTGGA5640Sbjct5581CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA5640Query5641ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCA5700Sbjct5641ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCA5700Query5701TTGCTTCATTGATGGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC5760	~ 1			
Sbjet 5341 TGGCTGCTCTGGCCGCTATTGCCTGCAACAGGCTGGTCATAGTGGGCAGGATTG 5400  Query 5401 TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTACCAGGAGTTCGATG 5460  Sbjet 5401 TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTACCAGGAGTTCGATG 5460  Query 5461 AGATGGAAGAGCCGGCAATTATACCTGACAGGGAGGTTCTACCAGGAGTTCGATG 5460  Sbjet 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520  Query 5521 AGATCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCAGCCAAGGGATGATGCTCGCTGAGC 5520  Sbjet 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGCCCCCATGCAGAGGTTATCA 5580  Query 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGCCCCAAGCAGAGGTTATCA 5580  Query 5581 CCCCTGCTTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA 5640  Sbjet 5581 CCCCTGCTTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAAGCACATGTGGA 5640  Query 5641 ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCTGGTAACCCCGCCA 5700  Query 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC 5760	_			
Query5401TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTACCAGGAGTTCGATG IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	_			
Sbjct 5401 TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG 5460  Query 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520  Sbjct 5461 AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520  Query 5521 AGATCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCCCATGCAGAGGGTTATCA 5580  Sbjct 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCCCCATGCAGAGGGTTATCA 5580  Query 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA 5580  Query 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA 5640  Sbjct 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA 5640  Query 5641 ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700  Sbjct 5641 ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCCGCCA 5700  Query 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC 5760	_			
Query5461AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC5520Sbjct5461AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC5520Query5521AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGCCATGCAGAGGGTTATCA5580Sbjct5521AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGGTTATCA5580Query5581CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA5640Sbjct5581CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA5640Query5641ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA5700Sbjct5641ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA5700Query5701TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC5760	_			
Sbjct 5461 AGATGGAAGAGCCCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC 5520  Query 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCCCATGCAGAGGGTTATCA 5580  Sbjct 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGGTTATCA 5580  Query 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA 5640  Sbjct 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA 5640  Query 5641 ATTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700  Sbjct 5641 ATTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700  Query 5701 TTGCTTCATTGATGGCTTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC 5760	_			
Query5521AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA5580Sbjct5521AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA5580Query5581CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA5640Sbjct5581CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA5640Query5641ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA5700Sbjct5641ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA5700Query5701TTGCTTCATTGATGGCTTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC5760	_			
Sbjet 5521 AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA 5580  Query 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA 5640  Sbjet 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA 5640  Query 5641 ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700  Sbjet 5641 ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700  Query 5701 TTGCTTCATTGATGGCTTTTTACAGCTGCCGTCACCACCCCACTAACCACTGGCCAAACCC 5760	_	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query       5581       CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA       5640         Sbjct       5581       CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA       5640         Query       5641       ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA       5700         Sbjct       5641       ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA       5700         Query       5701       TTGCTTCATTGATGGCTTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC       5760	_	5521		5580
Sbjet 5581 CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA 5640  Query 5641 ATTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700  Sbjet 5641 ATTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700  Query 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC 5760	_			
Query 5641 ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700  Sbjct 5641 ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700  Query 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC 5760	_	5581		
Sbjct 5641 ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA 5700  Query 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC 5760	_	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC 5760	_	5641		5700
Sbjct 5701 TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC 5760	Query	5701		5760
	Sbjct	5701		5760

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Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	ĊĊĠĊĊŤŤĠŤĠĠĠĊĠĊŤĠĠĊŤŦĂĠĊŤĠĠĊĠĊĊĠĊĊĂŤĊĠĠĊĂĠĊĠŤŤĠĠĂĊŤĠĠĠĠĂÁĠĠ	5880
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Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
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Sbjct	6001 6061	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060 6120
Query Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121		6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181		6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
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Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301		6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
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Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
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Sbjct	6541 6601	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600 6660
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Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661		6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721		6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781		6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841		6900

Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
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Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
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Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
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Sbjct	7501	ccatgcccccctggaggggagcctggggatccggatctcagcgacgggtcatggtcga	7560
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Sbjct	7561	cggtcagtagtgggccgacacggaagatgtcgtgtgctgctcaatgtcttattcctgga	7620
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Sbjct	7621	caggcgcactcgtcaccccgtgcgctgcggaagaacaaaaactgcccatcaacgcactga	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
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Sbjct	7741	AAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
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Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
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Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
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Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
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Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
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Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401 8461	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8460 8520
Query Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521		8580
Query	8581	CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
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Query	8641	CCGcccccccggggacccccCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641		8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
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Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACCCCAGTCAATT	8820
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Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881 8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
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Query Sbjct	8941		9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
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Query
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    9479
                      9495
Sbjct
Score = 285 bits (154), Expect = 6e-73 Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus
    9418
                                                   9474
Query
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Sbjct
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>dbj|BD069982.1| Functional DNA clone for hepatitis C virus (HCV) and uses thereof Length=9646

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Score = 1.732e+04 bits (9379), Expect = 0.0 Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)
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Sbjct
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Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
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Sbjct	661		720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	gccctaactcgagtattgtgtacgaggcggccgatgccatcctgcacactccggggtgtg	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTĠĠTĊĀĀĊŢĠŢŢŢĀĊĊŢŢĊŢĊŢĊĊĠĠĠĊĠĊĠĊĀĊŢĠĠĀĊĠĀĊĠĊĀĀĠĀĊŢĠĊĀĀŢŢĠŢŢ	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440

Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TĠAACTĠĊAATĠAAAĠĊĊŦŦAAĊAĊĊĠĠĊŦĠĠŤŦAĠĊĀĠĠĊŦĊŦŤĊŦAŦĊĀĠĊĀĊĀĀAŦ	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGTTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTCCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580

Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŢŢŢĠĠĠĠĠĊĊŢĊĠŢĠĠŢĊĊĠĠĠĠĊĠĊĠĠĠĠĊĊĠĠĠĊĊŢĠĠĊ	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881 2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGCGCCCCTCAACGTCC	2940 2940
Sbjct Querv	2941	agaagagaCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATCCCTACTCATGTGTGTGTACACCCGACTCTGGTATTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCCCTTACTGGCA	3180
Sbjct	3121		3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	ĠĠĠĊŔĠŔŦŔĊĊĠĊĠĊĠĊĠŦĠĊĠŦĠŔĊŔŦĊŔŦĊŔŔĊĠĠĊŦŦĠĊĊĊĠŦĊŦĊŦĠĊĊĊĠŦŔĠĠĠ	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540 3600
Query Sbjct	3541 3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		3720
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Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	gtccgctgttgtgccccgcgggacacgccgtgggcctattcagggccgcgcgtgtgcaccc	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681		4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801		4860

Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbict	4861		4920
Query	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921		4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981		5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041		5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TĠĠĊŢĠĊŢĊŢĠĠĊĠĊĠŢĂŢŢĠĊĊŢĠŢĊĂĂĊĂĠĠĊŢĠĊĠŢĠĠŢĊĂŢĂĠŢĠĠĠĊĀĠĠĂŢŢĠ	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query Sbjct	5581 5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640 5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTICATION TO THE ATTICATION OF THE ATTICATION O	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701		5760
Query	5761	TCCTCTTCAACATATTqqqqqqTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761		5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821		5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881		5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941		6000

Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	gcccggcgagggggagtgcaatggatgaaccggctaatagccttcgcctcccggggga	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	accatigititiccccacicactaciticcicicicicaciacitacit	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TÁCTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660 6660
Sbjct Query	6601 6661	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACTA CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGACG	6720
Querv	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721		6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781		6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841		6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901		6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021		7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140

Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	TTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGGCGGCGGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGeeeccoTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGGAGCCTGGGGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CÁGGCGCÁCTCGTCÁCCCCGTGCGCTGCGGÁÁGAÁCÁÁÁÁÁCTGCCCATCÁÁCGCÁCTGÁ	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	ĠĊĂĂĊŢĊĠŢŢĠĊŢĂĊĠĊĊĂŢĊĂĊĂĂŢĊŢĠĠŢĠŢĠŢŦŢŢĊĊĂĊĊĂĊŢŢĊĂĊĠĊĀĠŢĠĊŢŢĠĊĊ	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861	AAGCTTGCAGCCTGACGCCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
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Sbjct	8161	ŤĠĠĠŔŔĠĊŤĊĊŤŔĊĠĠŔŤŤĊĊŔŔŤŔĊŤĊŔĊĊŔĠĠŔĊŔĠĊĠĠĠŤŤĠŔŔŦŤĊĊŤĊĠŤĠĊŔŔĠ	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280

Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Sbjct	8581	CGGGGGTCCAGGAGGCCGGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
Query	8641	CCGcccccccggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Sbjct	8641	CCGCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
Sbjct	8701	cctccaacgtgtcagtcgccacgacggcgctggaaagagggtctactaccttacccgtg	8760
Query	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGAC	8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881	cccatttctttagcgtcctcatagccagggatcagcttgaacaggctcttaactgtgaga	8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001	atggcctcagcgcattttcactccacagttactctccaggtgaaatcaatagggtggccg	9060
Query	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Query	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Sbjct	9121	TCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCA	9180
Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Sbjct	9181	ACTGGGCAGTAAGAACAAAGCTCAACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
Query	9241	TGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATG	9300
Sbjct	9241	rgtccggtrggtrcacggctacagcggggagacatttatcacagcgtgtctcatg	9300
Query	9301	CCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTGCTGCAGGGGTAGGCATCTACC	9360
Sbjct	9301	cccgccccccctcgcttctccttcctactcctcctcctcctccacgcctacgcatctacc	9360
Query	9361	TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTG	9420
Sbjct	9361	TCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCCTGTTT	9420

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9421
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        Query
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Sbjct
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Query
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Sbjct
    9479
                    9495
Score = 285 bits (154), Expect = 6e-73 Identities = 177/187 (94%), Gaps = 6/187 (3%)
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    9461
        9519
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    9475
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    9520
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Sbjct
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                                               9592
Query
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    9580
        GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG
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ATCATGT
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## >gb|AR110828.1|AR110828 Sequence 1 from patent US 6127116 Length=9646

Score = 1.732e+04 bits (9379), Expect = 0.0 Identities = 9459/9498 (99%), Gaps = 3/9498 (0%)

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Query
         GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
                                                      60
Sbjct
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                                                      120
Query
         Sbjct
     61
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                                                      120
         occoctcccggagagccatagtggtctgcggaaccggtgagtacaccggaattgccag
                                                      180
Query
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Sbjct
     121
                                                      180
     181
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                                                      240
Query
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     181
                                                      240
Sbjct
Query
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                                                      300
         GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
     241
                                                      300
Sbjct
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     301
                                                      360
Query
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     301
                                                      360
Sbjct
         CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
Query
     361
         Sbjct
     361
         CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
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Query
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Sbjct
     421
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481

Ouerv

540

Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
-	541	AGGCACGTCGGCCCGAGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATG	600
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query Sbjct	601	CAATGAGGGTTGCGGGTGGGCGGATGGCTCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661		720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721		780
Query	781	CTGCCAGGGCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781		840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841		900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021		1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081		1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	rgatcgcrggrgcrcacrggggagrccrggcggcaragcgratrrcrccarggrggga	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680

Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AĞĞĞCTĞĞĞĞTCCTATCAĞTTATĞCCAACĞĞAAĞCĞĞCCTCĞACĞAACĞCCCCTACTĞCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
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Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
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Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
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Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACCCTTGCTCTGCCCCACTGATTGTTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
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Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
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Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
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Sbjct	2641		2700
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Sbjct	2701		2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820

Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
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Sbjct	2881	agtattttctgaccagagtagaagcgcaactgcacgtgtgggttccccccctcaacgtcc	2940
Query	2941	gggggggCCCGATCCCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ĠĠĠĠĠĠĠĠĠĊĠĊĠĸŢĠĊĊĠŢĊĸŢĊŢŢĸĊŢĊĸŢĠŢĠŢĠŢŢĠŢĸĊĸĊĊĠĸĊŢĊŢĠĠŢĸŢŢŢĠ	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
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Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
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Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
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Query	3421 3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480 3480
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Query Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
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Sbjct	3541		3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960

Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501 4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560 4560
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query Sbjct	4561		4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCGGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	ĠĠĊŦŦĊĊĊĠŦĠŦĠĊĊAĠĠĂĊĊĂŦĊŦŦĠĀĀŦŦŦŦĠĠĠĀĠĠĊĠŦĊŦŦŦĀĊĠĠĠĊĊŦĊĀĊŦĊ	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100

Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	rgrggaagrgrrrgarccgccrraaacccacccrccargggccaacaccccrrgcraraca	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	ĠAĊŢĠĠĠĠĠĊŢĠŢŢĊAĠAAŢĠAAĠŢĊĀĊĊĊŢĠĀĊĠĊĀĊĊĊĀAŢĊĀĊĀĀĀŢĀĊĀŢĠĀ	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	ĊĂTĠĊĀTĠŢĊĠĠĊĊĠĀĊĊŢĠĠĀĠĠŢĊĠŢĊĀĊĠĀĠĊĀĊĊŢĠĠĠŢĠĊŢĊĠŢŢĠĠĊĠĠĊĠŢĊĊ	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	rigictigictigicigic general tigic de la company de la comp	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	tcttgtccgggaagccggcaattatacctgacagggaggttctctaccaggagttcgatg	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	agatggaagagtgctctcagcacttaccgtacatcgagcaagggatgatgctcgctgagc	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	agttcaagcagaaggccttcggcctcctgcagaccgcgtcccgccaagcagaggttatca	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	ccctgctgtccagaccaactggcagaaactcgaggtcttctgggcgaagcacatgtgga	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	atttcatcagtgggatacaatacttggcgggcctgtcaacgctgcctggtaaccccgcca	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	tigetteattgatggettttaeagetgeegteaceageeeactaaceaetggeeaaaeee	5760
Query	5761	TCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	tcctcttcaacatattgggggggtgggtggctgcccagctcgccgcccccggtgccgcta	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	ccgcctttgtgggcgctggcttagctggcgccgccatcggcagcgttggactgggaagg	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	tcctcgtggacattcttgcagggtatggcgcgggcgtggcgggagctcttgtagcattca	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	agatcatgagcggtgaggtcccctccacggaggacctggtcaatctgctgcccgccatcc	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240

Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	rgctgagcgactttaagacctggctgaaagccaagctcatgccacaactgcctgggattc	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	ĊĊŦŦŦĠŦĠŦĊĊŦĠĊĊĀĠĊĠĊĠĠĠŦĂŦĀĠĠĠĠĠĠŦĊŦĠĠĊĠĀĠĀĠĠĠĊĀŦŦĀŦĠĊĀĊĀ	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	ĊŢĊĠĊŢĠĊĊĂĊŢĠŢĠĠĂĠĊŢĠĂĠĂŢĊĂĊŢĠĠĂĊĀŢĠŢĊĂĂĂĂĂĊĠĠĠĂĊĠĂŢĠĀĠĠĂŢĊĠ	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	†CGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	ĊĠĠĠĊĊĊĊŢĠŢŖĊŢĊĊĊŢŢĊĊŢĠĊĠĊĠĸĸĊŢĸŢĸĸĠŢŢĊĠĊĠĊŢĠŢĠĠĸĠĠĠŢĠŢĊŢĠ	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	ĊĠĠĠĠĠĠĠŦĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĊŦŦĊĊĠĊŦĠĊĠĠŦĠŦĊĠĠĠŦĠŦĠĠĊŦĠ	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	ĊŤĠĂĊĂĂŤĊŤŤĂĂĂŤĠĊĊĊĠŤĠĊĊĂĠĂŤĊĊĊĂŤĊĠĊĊĊĠĂĂŤŤŤŤĊĂĊĂĠĂĂŤŤĠĠĂĊĠ	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	ĠĠĠŦĠĊĠĊĊŦĂĊĂŦĂĠĠŦŦŦĠĊĠĊĊĊĊŦŦĠĊĂĂĠĊĊĊŦŦĠĊŦĠĊĠĠĠĀĠĠĀĠĠŦĂŦĊĀŦ	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	ĠĠĀĠĀĀĠĠŦŦĠĠĊĠĀĠĀĠĠĠŦĊĀĊĊĊĊŦŦĊŦĀŦĠĠĊĊĀĠĊŦĊĊŦĊĠĠĊĊĀĠĊĊĀ	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	ÁGÁÁCÁÁÁÁGTGGTGÁTTCTGGÁCTCCTTCGÁTCCGCTTGTGGCÁGÁGGÁGGÁTGÁGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Query	7201	TCTGGGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	ŤŦŤĠĠĠĊĠĠĊĊĠĠĂĊŤĂĊĂĂĊĊĊĊĊĠĊŤĂĠŤĀĠĂĠĂĊĠŤĠĠĂĂĂĂĀĠĊĊŤĠĂĊŤĀĊĠ	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	ÁÁCCÁCCTGTGGTCCÁTGGCTGCCCGCTÁCCÁCCGCTCCÁCGGTCCCCTCCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380

01 l ·	E001		5000
Sbjct	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGGGGGGGGGTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGaaaaaatGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA	7560
Sbjct	7501	ccatgcccccctggaggggagcctggggatccggatctcagcgacgggtcatggtcga	7560
Query	7561	CGGTCAGTAGTGGGCCGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGA	7620
Sbjct	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741		7800
Query	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Sbjct	7801		7860
Query	7861	AAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861		7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981		8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041		8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
Sbjct	8221		8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
Sbjct	8281		8340
Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
Sbjct	8341		8400
Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401		8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520

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Sbjct
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Sbjct
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Query
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    8581
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Query
    8701
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Sbjct
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                                                 9360
Query
        9301
                                                 9360
Sbjct
Query
    9361
        TCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGttt
                                                 9420
        9361
                                                 9420
Sbjct
    9421
        t to the teletic to the teletic to the teletic to the contract that the contract the t
                                                 9480
Query
        9421
                                                 9478
Sbjct
Query
    9481
        tttctttttcctttt
        ||| ||||||||| ||| TTT-TTTTTCCTTTTTT
Sbjct
    9479
                     9495
Score = 285 bits (154), Expect = 6e-73 Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus
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Sbjct
        9475
                                                9532
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Sbjct
    9520
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        GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG
                                                9592
Query
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        Sbjct
    9580
        GCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAG
                                                9639
        ATCATGT
              9599
Query
    9593
        9640
        ATCATGT
              9646
Sbjct
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>dbj|DL487747.1| FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF Length=12980

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Score = 1.732e+04 bits (9377), Expect = 0.0 Identities = 9458/9498 (99%), Gaps = 1/9498 (0%)
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Query
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Sbjct
     1
                                                      60
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Query
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         Sbjct
     61
         TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC
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         ecococtCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
Query
     121
                                                      180
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Sbjct
     121
     181
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                                                      240
Query
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                                                      240
     241
         GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
                                                      300
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         Sbjct
     241
                                                      300
Query
     301
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                                                      360
         301
         GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
Sbjct
                                                      360
     361
         CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
                                                      420
Query
         CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
                                                      420
Sbjct
     361
     421
         GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
                                                      480
Query
         421
                                                      480
Sbjct
     481
         GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA
                                                      540
Query
         GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA
     481
                                                      540
Sbjct
     541
         AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG
                                                      600
Query
         AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG
     541
                                                      600
Sbjct
         GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT
Query
     601
                                                      660
         Sbjct
     601
                                                      660
         GGGGCCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA
                                                      720
Query
     661
         GGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA
Sbjct
     661
                                                      720
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Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	ctgccagggccctggcgcatggcgtccgggttctggaagacggcgtgaactatgcaacag	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACCG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct Query	961 1021	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG  TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1020
Sbjct	1021		1080
Query	1081	CCACCAGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGTTG	1140
Sbjct	1081		1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGCCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŦAŦĊŦAŦĊĊĊĠĠĊĊĂŦAŦAĀĊĠĠĠŦĊĀŦĊĠĊĀŦĠĠĊĀŦĠĠĠĀŦĀŦĠĀŦĠĀĀĊŦĠĠŦ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct Ouerv	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA  ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1440 1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561		1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	tcaactcttcaggctgtcctgagaggttggccagctgccgacgccttaccgattttgccc	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860

Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	attgcttcactccagccccgtggtggtggaacgaccgacaggtcggccgcctacct	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	acagctggggtgcaaatgatacggatgtcttcgtccttaacaacaccaggccaccgctgg	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ĠĊAATTĠĠŦŢĊĠĠŦŢĠŢAĊĊŢĠĠAŢĠĀAĊŢĊĀAĊŢĠĠĀŢŢĊĀĊĊĀAĀĠŢĠŢĠĊĠĠĀĠĊĠĊ	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGTTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊŔĠĠŔŤĊĊĠĠŔŔĠĊĊŔĊŔŤŔĊŤĊŤĊĠĠŤĠĊĠĠĊŤĊĊĠĠŤĊĊĊŤĠĠŔŤŤŔĊŔĊĊĊŔĠĠŤ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTCCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640 2700
Query Sbjct	2641 2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGTTGCCTCAGCGGG	2760
Sbjct	2701		2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761		2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccCTCAACGTCC	2940
Sbjct	2881		2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		3000

Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	ttaaagtcccctacttcgtgcgcgttcaaggccttctccggatctgcgcgctagcgcga	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	ÁGÁTÁGCCGGÁGGTCÁTTÁCGTGCÁÁÁTGGCCÁTCÁTCÁÁGTTÁGGGGCGCTTÁCTGGCÁ	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661 3721	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT  CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3720
Query Sbict	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780 3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		3900
Query	3901	GTGGAGTGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		4140
ر	-		-

Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	acatgtccaaggcccatggggttgatcctaatatcaggaccggggtgagaacaattacca	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	ĊŤĠĠĊŔĠĊĊĊŔŤĊŔĊĠŤŔĊŤĊĊŔĊĊŤŔĊĠĠĊŔŔĠŤŤĊĊŤŤĠĊĊĠŔĊĠĠĊĠĠĠŤĠĊŤĊŔĠ	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921 4981	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	4980 5040
Query Sbjct	4901	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041		5100
_	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct			
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280

Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	ĊATĠĊATĠŢĊĠĠĊĊĠAĊĊŢĠĠAĠĠŢĊĠŢĊAĊĠĀĠĊAĊĊŢĠĠĠŢĠĊŢĊĠŢŢĠĠĊĠĠĊĠŢĊĊ	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	ŤĠĠĊŤĠĊŤĊŤĠĠĊĊĠĊĠŤĂŤŤĠĊĊŤĠŤĊĂĂĊĂĠĠĊŤĠĊĠŤĠĠŤĊĂŤĂĠŤĠĠĠĊĀĠĠĂŤŤĠ	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCCTTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGCCAAGGGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121 6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180 6180
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
_	6241		6300
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6301	IGCIGAGCGACIIIAAGACCIGGCIGAAAGCCAAGCICAIGCCACAACIGCCIGGGAIIC	6360
Sbjct			6420
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420

Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	ĊŢĊĠĊŢĠĊĊĸĊŢĠŢĠĠĸĠĊŢĠĸĠĸŢĊĸĊŢĠĠĸĊĸŢĠŢĊĸĸĸĸĸĸĸĸ	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	ŤĊĠĠŤĊĊŤĂĠĠĂĊĊŤĠĊĂĠĠĂĂĊĂŤĠŤĠĠĂĠŤĠĠĠĂĊĠŤŤĊĊĊĊĂŤŤĂĂĊĠĊĊŤĂĊĂĊĊĀ	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
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Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
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Query	7201 7201	TCTGGGCGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260 7260
Sbjct Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCCGC	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321		7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TIGCCACCAAAAGIIIIGGCAGCICCICAACIICCGGCAIIACGGCGACAAIACGACAA	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGcccccaGACTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGccccccTGGGGGGGGGGGGGGGGGTCTGGGGGTCTCAGCGACGGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
טטטפנ	1001	ADJIBBIAJIBBOABODAJIJIABBODIIADBBEIJOBADDDDADDIIOODBIA	,500

Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGA	7620
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Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	ĠĊŔŔĊŤĊĠŤŤĠĊŤŔĊĠĊĊŔŤĊŔĊŔŔŤĊŤĠĠŤĠŤŔŤŤĊĊŔĊĊŔĊŤŤĊŔĊĠĊŔĠŤĠĊŤŤĠĊĊ	7740
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Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
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Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
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Query Sbjct	8161 8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
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Sbict	8281		8340
Query	8341	CCCAAGCCGGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
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Query	8401	CCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401		8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461		8520
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Sbjct	8521		8580
Query	8581	CGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8640
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Query	8641	CCG::::cccccggggaccc::cACAACCAGAATACGACTTGGAGCTTATAACATCATGCT	8700
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Sbjct
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                                                   9420
Query
    9361
        Sbjct
    9361
                                                   9420
Query
    9421
         9480
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                                                   9480
Sbjct
    9481
         tttetttttcccttctt
                      9498
Query
        9481
                      9497
Sbjct
Score = 285 bits (154), Expect = 6e-73 Identities = 177/187 (94%), Gaps = 6/187 (3%)
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    9463
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    9522
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    9533
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Sbjct
Query
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        ATCATGT
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ATCATGT
Sbjct
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>gb|EA263004.1| Sequence 5 from patent US 7235394 Length=12980

> Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

Score = 1.732e+04 bits (9377), Expect = 0.0 Identities = 9458/9498 (99%), Gaps = 1/9498 (0%) Strand=Plus/Plus GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG Query 1 60 60 Sbjct 1  ${\tt TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA @ a constraint of the constraint of t$ Query 61 120 Sbjct 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC 120 121 GGGGGTCCCGGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180 Query Sbjct 121 180 GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC Query 181 240 181 GÁCGÁCCGGGTCCTTTCTTGGÁTÁAACCCGCTCAATGCCTGGÁGÁTTTGGGCGTGCCCCC 240 Sbjct GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG Query 241 300 GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG 300 Sbjct 241 Query 301 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360 301 360 Sbjct CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG Query 361 420 CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG Sbjct 361 420 GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC Query 421 480 Sbjct 421 480 Query 481 GCGCGACGAGGAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540 GCGCGACGAGGAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA Sbjct 481 540 AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG Query 541 600 AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG 541 600 Sbjct GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT Query 601 660 Sbjct 601 660 GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA Query 661 720 Sbjct 661 720 CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG 780 Query 721 Sbjct 721 780 781 CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG 840 Query Sbjct 781 CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG 840 Query 841 GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG 900 GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACCG 841 900 Sbjct 901 TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT Query 

Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	ĠĊĊĊŦĂĀĊŦĊĠĂĠŦĀŦŦĠŦĠŦĀĊĠĂĠĠĊĠĠĊĊĠĀŦĠĊĊĂŦĊĊŦĠĊĀĊĀĊŤĊĊĠĠĠĠŦĠŦĠ	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTTTT	1200
Query	1201 1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260 1260
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query Sbjct	1261		1320
Query	1321	CCCCTACGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381		1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441		1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	tgaactgcaatgaaagccttaacaccgcttgcttagcaggctcttctatcagcacaaat	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861 1921	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920 1980
Query Sbjct	1921	ACAGCIGGGGIGCAAAIGAIACGGAIGICIICGICCIIAACAACACCAGGCCACCGCIGG	1980
Query	1921	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
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Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
2001 1	_ ,		

Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACCCTTGCTCTGCCCCACTGATTGTTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	gcaagcatccggaagccacatactctcggtgcggctccggtccctggattacacccaggt	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	gcatggtcgactacccgtataggcttttggcactatccttgtaccatcaattacaccatat	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	rcaaagrcaggargracgraggaggggrcgagcacaggcrggaagcggccrgcaacrgga	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	ĊĠĊĠĠĠĠĊĠAAĊĠĊŤĠŤĠAŤĊŤĠĠAAĠAĊAĠĠĠAĊAĠĠŤĊĊĠAĠĊŤĊAĠĊĊĊAŤŤĠĊŤĠĊ	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
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Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
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Sbjct	2521	CAGACGCGCGCTCTGCTCGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
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Query	2761 2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TIGGCGCTGACTCTGTCGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880
Ouerv	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCC	2940
Sbjct	2881		2940
Query	2941	GGGGGGGGCGCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ÍÍÍÍÍÍÍÍI	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240

Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
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Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	ĠĠĠĊĀĠĀŦĀĊĊĠĊĠĊĠĊĠŦĠĊĠĠŦĠĀĊĀŦĊĀŦĊĀĀĊĠĠĊŦŦĠĊĊĊĠŦĊŦĊŦĠĊĊĊĠŦĀĠĠĠ	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	ĠĊĊŔĠĠŔĠŔŦŔĊŦĠĊŦŦĠĠĠĊĊŔĠĊĊĠŔĊĠĠŔŔŦĠĠŦĊŦĊĊŔŔĠĠĠĠŦĠĠŔĠĠŦŦĠĊŦĠĠ	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601 3661	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG  ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3660 3720
Query Sbjct	3661	ACCTIGIGGGCIGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781		3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841		3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
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Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	acctgcatgctccaccggcagcggtaagagcaccaaggtcccggctgcgtacgcagccc	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AĠĠĠĊŦĀĊĀĀĠĠŤĠŦŦĠĠŦĠĊŦĊĀĀĊĊĊĊŤĊŤĠŦŦĠĊŦĠĊĀĀĊĠĊŤĠĠĠĊŤŦŦĠĠŦĠĊŦŦ	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380

Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGCGAGACTGGTTGTGCTCG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381		4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	cgaccagcggcgatgttgtcgtcgtcgaccgatgctctcatgactggctttaccggcg	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
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Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTÁCCTTTÁCCATTGÁGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981 5041	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC  ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5040 5100
Query Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbict	5101		5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbict	5161		5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221		5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281		5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341		5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401		5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520

Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521		5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641		5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTggggggGGGGGGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCCTTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	tctcgcctggagcccttgtagtcggtgtggtctgcgcagcaatactgcgccggcacgttg	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	gcccggcgagggggggaggagcccggcgagggggggggg	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	accatgiticcccacgcactacgtgccggagagcgatgcagccgcccgc	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TÁCTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AĞTĞTACCACTCCATĞCTCCĞĞTTCCTĞĞCTAAĞĞĞACATCTĞĞĞACTĞĞATATĞCĞAĞĞ	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	ŤĠĊŤĠĂĠĊĠĂĊŤŤŤĂĂĠĂĊĊŤĠĠĊŤĠĂĂĂĠĊĊĂĂĠĊŤĊĂŤĠĊĊĂĊĂĂĊŤĠĊĊŤĠĠĠĂŤŤĊ	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	ĊĊŦŦŦĠŦĠŦĊĊŦĠĊĊĂĠĊĠĊĠĠĠŦĂŦĀĠĠĠĠĠĠŦĊŦĠĠĊĠĂĠĠĠĠĠĠĊĂŦŦĀŦĠĊĀĊĀ	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	ĊŤĊĠĊŤĠĊĊĂĊŤĠŤĠĠĂĠĊŤĠĂĠĂŤĊĂĊŤĠĠĂĊĂŤĠŤĊĂĂĂĂĂĊĠĠĠĂĊĠĂŤĠĀĠĠĂŤĊĠ	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	tcggtcctaggacctgcaggaacatgtggagtgggacgttccccattaacgcctacacca	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	ĊĠĠĠĊĊĊĊŤĠŤĂĊŤĊĊĊĊŤŤĊĊŤĠĊĠĊĊĠĂĂĊŤĂŤĂĂĠŤŤĊĠĊĠĊŤĠŤĠĠĀĠĠĠŤĠŤĊŤĠ	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660

Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	ĊŤĠŔĊŔŔŤĊŤŤŔŔŔŤĠĊĊĠŤĠĊĊŔĠŔŤĊĊĊŔŤĊĠĊĊĠŔŔŤŤŤŤĊŔĊŔĠŔŔŤŤĠĠŔĊĠ	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901 6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960 6960
Sbjct	6961	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	7020
Query Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021		7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
~ - Sbjct	7081		7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141		7200
Query	7201	TCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201		7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
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Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
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Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
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Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACTTCCGACGTTGAGTCCTATTCTT	7500
Sbjct	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTT	7500
Query	7501	CCATGeoccoetGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA	7560
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Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561 7621	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGA	7620 7680
Query Sbjct	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
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Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
Sbjct	7921	acgrecerrigecaracea acceptance ac	7980
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Sbjct	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
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Sbjct Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
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Query	8401	CCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAA	8460
Sbjct	8401		8460
Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
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Sbjct
Score = 285 bits (154), Expect = 6e-73 Identities = 177/187 (94%), Gaps = 6/187 (3%)
Strand=Plus/Plus
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    9418
Ouerv
    9463
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Sbjct
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Sbjct
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>dbj|BD069985.1| Functional DNA clone for hepatitis C virus (HCV) and uses thereof Length=12980

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Score = 1.732e+04 bits (9377), Expect = 0.0 Identities = 9458/9498 (99%), Gaps = 1/9498 (0%) Strand=Plus/Plus
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Query	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query Sbjct	61 61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC	120 120
Query	121	cccccCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Sbjct	121		180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	240
Sbjct	181	gacgaccgggtcctttcttggataaacccgctcaatgcctggagatttgggcgtgcccc	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	gcaagactgctagccgagtagtgttgggtcgcgaaaggccttgtggtactgctgatagg	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	ĠŤĠĊŤŤĠĊĠĂĠŤĠĊĊĊĊĠĠĠĂĠĠŤĊŤĊĠŤĂĠĂĊĊĠŤĠĊĂĊĊĂŤĠĂĠĊĂĊĠĂĂŤĊĊŤĂĂĂĊ	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	ĊŤĊŔŔŔĠĸŔŔŔĸĊĊŔŔŔĊĠŤŔŔĊŔĊĊŔŔĊĠŤĊĠĊĊĊŔĊŔĠĠŔĊĠŤĊŔŔĠŤŤĊĊĊĠĠĠŤĠ	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA  CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	720 780
Query Sbjct	721 721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781		840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACCG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140

Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ĠĠĂĠĊĠĊĊĂĊĊĊŤĊŤĠĊŤĊĠĠĊĊĊŤĊŤĂĊĠŤĠĠĠĠĠĀĊĊŤĠŤĠĊĠĠĠŤĊŤĠŤĊŤŤŤĊŤŤĠ	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	tiggtcaactgtitaccttctctccaggcgccactggacgacgcaagactgcaattgtt	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŢŖŢĊŢŖŢĊĊĠĠĊĊĸŢĸŢĸĸĊĠĠĠŢĊĸŢĊĠĊĸŢĠĠĊĸŢĠĠ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	actgggcgaaggtcctggtagtgctgctatttgccggcgtcgacgcggaaacccacg	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	tcaccggggaagtgccgcaccacggctgggcttgttggtctccttacaccaggcg	1560
Query	1561	CCAAGCAGAACATCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	tcaactcttcaggctgtcctgagaggttggccagctgccgacgccttaccgattttgccc	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	gcactaccctccaagaccttgtgcattgtgcccgcaaagagcgtgtgtgcccggtat	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	attgcttcactccagccccgtggtggtggaacgaccgacaggtcgggcgcctacct	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	acagctggggtgcaaatgatacggatgtcttcgtccttaacaacaccaggccaccgctgg	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ĠĊAATTĠĠŦŢĊĠĠŦŢĠŢAĊĊŢĠĠAŢĠAAĊŢĊĠAĊŢĠĠĀŢŢĊAĊĊAAAĠŢĠŢĠĊĠĠĀĠĊĠĊ	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	ccccttgtgtcatcggaggggtggcaacaacaccttgctctgcccactgattgtttcc	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	gcatggtcgactacccgtataggctttggcactatccttgtaccatcaattacaccatat	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280

Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	ĊĠĊĠĠĠĠĊĠAAĊĠĊŤĠŤĠAŤĊŤĠĠAAĠAĊAĠĠĠAĊAĠĠŤĊĊĠAĠĊŤĊAĠĊĊĊAŤŤĠĊŤĠĊ	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	ŤĠŤĊĊĂĊĊĂĊĂĊĂĠŤĠĠĊĂĠĠŤĊĊŤŤĊĊĠŤĠŤŤĊŤŤŤĊĂĊĠĂĊĊĊŤĠĊĊĂĠĊĊŤŤĠŤĊĊĀ	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTCCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTTGTTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCTTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct Query	2821 2881	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTACATCAGCTGGTGCATGTGGTGGCTTC	2880 2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGGGTCAACGTCC	2940
Query	2941	ggggggGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	GGGGGGGGCGCGATCCTACTCATGTGTTGTACACCCGACTCTGGTATTG	3000
Ouerv	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181		3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241		3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301		3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361		3420

Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	c c c c c c c c c c c c c c c c c c c	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	ŤĠŔĊŤĠĠĊĊĠĠĠŔĊŔŔŔŔĸĊĊŔŔĠŤĠĠŔĠĠŤĠŔĠĠŤĊĊŔĠŔŤĊĠŤĠŤĊŔŔĊŤĠĊŤŔĊĊĊ	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	ccactgctacccctccgggctccgtcactgtgtcccatcctaacatcgaggaggttgctc	4440
Query	4441	TGTCCACCACCGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	tigtécaccaccigagagatéccettttaccigécaacigetatéccettccaccacigaticateaacig	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560

Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	rigit cicat rigidicat caarige citage catacitate de citage citat de citage catacitate de citage citage catacitate con como como como como como como como	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	cgaccagcggcgatgttgtcgtcgtgtcgaccgatgctctcatgactggctttaccggcg	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	acttcgactctgtgatagactgcaacacgtgtgtcactcagacagtcgatttcagccttg	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	accetacetttaceattgagacaaceacgeteeceaggatgetgteteeaggacteaac	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	ĠĊĊĠĠĠĠĊĀĠĠĀĊŤĠĠĊĀĠĠĠĠĀĀĠĊĊĀĠĠĊĀŤĊŤĀĊĀĠĀŤŤŤĠŤĠĠĊĀĊĊĠĠĠĠĠĀĠĊ	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	gcccctccgcatgttcgactcgtccgtcctctgtgagtgctatgacgcgggctgtgctt	4920
Query	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	ggtatgagctcacgcccgccgagactacagttaggctacgagcgtacatgaacaccccgg	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	ĠĠĊŦŦĊĊĊĠŦĠŦĠĊĊĀĠĠĀĊĊĂŦĊŦŦĠĀĀŦŦŦŦĠĠĠĀĠĠĊĠŦĊŦŦĀĊĠĠĠĊĊŦĊĀĊŦĊ	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	atatagatgcccactttctatcccagacaaagcagagtggggagaactttccttacctgg	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	tgtggaagtgtttgatccgccttaaacccaccctccatgggccaacacccctgctataca	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	ĠĂĊŦĠĠĠĊĠĊŦĠŦŦĊĂĠĂĂŦĠĂĂĠŦĊĂĊĊĊŦĠĂĊĠĊĂĊĊĊĂĂŦĊĂĊĂĂĂŦĂĊĂŦĊĂŤĠĀ	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	ĊĂŢĠĊĂŢĠŢĊĠĠĊĊĠĂĊĊŢĠĠĂĠĠŢĊĠŢĊĂĊĠĀĠĊĂĊĊŢĠĠĠŢĠĊŢĊĠŢŢĠĠĊĠĠĊĠŢĊĊ	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	ŤĠĠĊŤĠĊŤĊŤĠĠĊĊĠĊĠŤĂŤŤĠĊĊŤĠŤĊĂĂĊĂĠĠĊŤĠĊĠŤĠĠŤĊĂŤĂĠŤĠĠĠĊĀĠĠĂŤŤĠ	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	ŤĊŤŤĠŤĊĊĠĠĠĂĂĠĊĊĠĠĊĂĂŤŤĂŤĂĊĊŤĠĂĊÁĠĠĠĂĠŤŤĊŤĊŤĂĊĊĂĠĠĂĠŤŤĊĠĂŤĠ	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	agatggaagagtgctctcagcacttaccgtacatcgagcaagggatgatgctcgctgagc	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	agttcaagcagaaggccctcggcctcctgcagaccgcgtcccgccaagcagaggttatca	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	ccctgctgtccagaccaactggcagaactcgaggtcttctgggcgaagcacatgtgga	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700

Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCA	5940
Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCCTTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
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Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TÁCTCÁGCÁGCCTCÁCTGTÁACCCÁGCTCCTGÁGGCGÁCTGCÁTCÁGTGGÁTÁAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTÁCCACTCCÁTGCTCCGGTTCCTGGCTÁAGGGÁCATCTGGGÁCTGGÁTÁTGCGÁGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	ĊĀĠĀĠĠĀĀTĀĊĠŤĠĠĀĠĀŤĀĀĠĠĊĠĠĠŤĠĠĠĠĀĊŤŤĊĊĀĊŤĀĊĠŦĀŤĊĠĠĠŦĀŤĠĀĊŤĀ	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	ctgacaatcttaaatgcccgtgccagatcccatcgcccgaatttttcacagaattggacg	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	ĠĠĠŦĠĊĠĊĊŦĂĊĂŦĂĠĠŦŦŦĠĊĠĊĊĊĊŦŦĠĊĀĀĠĊĊĊŦŦĠĊŦĠĊĠĠĠĀĠĠĀĠĠŦĀŦĊĀŦ	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840

Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	acgtagccgtgttgacgtccatgctcactgatccctcccatataacagcagaggcggccg	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	ĠĠĂĠĂĂĠĠŤŤĠĠĊĠĂĠĂĠĠĠŤĊĂĊĊĊĊŤŤĊŤĂŤĠĠĊĊĂĠĊŤĊĊŤĊĠĠĊĊĂĠĊĊĠĠĊ	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	AGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
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Sbjct	7201	ŤŦŤĠĠĠĊĠĠĊĊĠĠĂĊŤĂĊĂĂĊĊĊĊĊĠĊŤĂĠŤĀĠĂĠĂĊĠŤĠĠĂĂĂĂĂĠĊĊŤĠĂĊŤĂĊĠ	7260
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Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	ĊŢĊĠĠĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	tráccaccaaaaátttrágcaáctcctcaactrccagcattacaágcacaatacaacaa	7440
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Sbjct	7441	ĊATCCTCTĠAĠCCCĠCCCCTTCTĠĠCTĠCCCCCCGACTCCĠACĠTTĠAĠTCCTATTCTT	7500
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Sbjct	7501	ccatgcccccctggaggggagcctggggatccggatctcagcgacgggtcatggtcga	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCTCAATGTCTTATTCCTGGA	7620
Sbjct	7561	cggtcagtagtgggccgacacggaagatgtcgtgtgctgctcaatgtcttattcctgga	7620
Query	7621	CAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGA	7680
Sbjct	7621	caggcgcactcgtcaccccgtgcgctgcggaagaacaaaaactgcccatcaacgcactga	7680
Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
Sbjct	7681	gcaactcgttgctacgccatcacaatctggtgtattccaccacttcacgcagtgcttgcc	7740
Query	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
Sbjct	7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800
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Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
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Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
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Sbjct	8041	ŤŤĊĂĠĊĊŤĠĂĠĂĂĠĠĠĠĠĠŤĊĠŤĂĂĠĊĊĂĠĊŤĊĠŤĊŤĊĂŤĊĠŤĠŤŤĊĊĊĊĠĂĊĊŤĠĠĠĊĠ	8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
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Query	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Sbjct	8161	TGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAG	8220
Query	8221	CGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCA	8280
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Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
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Query	8341	CCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTA	8400
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Query	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Sbjct	8461	CTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAG	8520
Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct Query	8521 8581	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG CGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACT	8580 8640
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Query	8641	CCGccccccccacacacacacacacacacacacacacaca	8700
Sbjct	8641		8700
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Sbjct	8701		8760
Query	8761	ACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT	8820
Sbjct	8761		8820
Query	8821	CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8880
Sbjct	8821		8880
Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
Sbjct	8881		8940
Query	8941	TCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCC	9000
Sbjct	8941		9000
Query	9001	ATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCG	9060
Sbjct	9001		9060
Query	9061	CATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCG	9120
Sbjct	9061		9120

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Sbjct
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Query
    9593
        9642
        ATCATGT
              9648
Sbjct
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> Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Sbjct
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Query
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Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	gtgcttgcgagtgccccgggaggtctcgtagaccgtgcaccatgagcacgaatcctaaac	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	ĊŢĊŖŖĠŖĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
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Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
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Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTTGGGTAAGGTCATCGATACCCTTA	720
Query	721 721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780 780
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Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
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Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ggagcgccaccctctgctcggccctctacgtgggggacctgtgcgggtctgtct	1200
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Sbjct	1201	ttggtcaactgttaccttctctccaggcgccactggacgacgacgactgcaattgtt	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŦĂŦĊŦĂŦĊĊĊĠĠĊĊĂŦĂŦĂĂĊĠĠĠŦĊĂŦĊĠĊĂŦĠĠĊĂŦĠĠĠĂŦĂŦĠĂŦĠĂŔĊŦĠĠŦ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380

Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
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Sbjct	1501	TCACCGGGGAAGTGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
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Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
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Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
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Sbjct	1921	acagctggggtgcaaatgatacggatgtcttcgtccttaacaacaccaggccaccgctgg	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ġĊaattġġttċġġttġtaċċtġġatġaaċtċaaċtġġattċaċċaaaġtġtġċġġaġċġċ	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	cccttgtgtcatcggaggggtggcaacaacaccttgctctgcccactgattgttcc	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊŔĠĠŔŦĊĊĠĠŔŔĠĊĊŔĊŔŦŔĊŦĊŦĊĠĠŦĠĊĠĠĊŦĊĊĠĠŦĊĊĊŦĠĠŔŦŦŔĊŔĊĊĊŔĠĠŦ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	ĠĊĂŤĠĠŤĊĠĂĊŤĂĊĊĊĠŤĂŤĂĠĠĊŤŤŤĠĠĊĂĊŤĂŤĊĊŤŤĠŤĂĊĊĂŤĊĂĂŤŤĂĊĂĊĊĂŤĂŤ	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	ĊĠĊĠĠĠĠĊĠAAĊĠĊŦĠŦĠAŦĊŦĠĠAAĠAĊAĠĠĠAĊAĠĠŦĊĊĠAĠĊŦĊAĠĊĊĊAŦŦĠĊŦĠĊ	2340
Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	tigtccaccacacagtiggcaggtccttccgtgttctttcacgaccctgccagccttgtcca	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	ccggcctcatccacctccacagaacattgtggacgtgcagtacttgtacggggtagggt	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520

Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTCCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	ĊĂĠĂĊĠĊĠĊĠĊĠŤĊŤĠĊŤĊĊŤĠĊŤŤĠŤĠĠĂŤĠŤŤĂĊŤĊĂŤĂŤĊĊĊĂĂĠĊĠĠĂĠĠĊĠĠ	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŤŤŤĠĠŔĠŔŔĊĊŤĊĠŤŔŔŤŔĊŤĊŔŔŤĠĊŔĠĊŔŤĊĊĊŤĠĠĊĊĠĠĠŔĊĠĊŔĊĠĠŤĊŤŤĠŤĠŤ	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	ŤĊŤĂĊĠĊĊŤŤĊŤĂĊĠĠĠĂŤĠŤĠĠĊĊŤĊŤĊĊŤĠĊŤĠĊŤĠĊŤĠĠĊĠŤŤĠĊĊŤĊĂĠĊĠĠĠ	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTAA	2820
Sbjct	2761	ĊĂŦĂĊĠĊĂĊŦĠĠĂĊĂĊĠĠĂĠĠŦĠĠĊĠĊĠŦĊĠŦĠŦĠĠĊĠĠĊĠŦŦĠŦŦĊŦŦĠŦĊĠĠĠŦŦĀĀ	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TĠĠĊĠĊŤĠĂĊŤĊŤĠŤĊĠĊĊĂŦĂŤŤĂĊĂĂĠĊĠĊŤĂĊĂŤĊĂĠĊŤĠĠŤĠĊĂŤĠŤĠĠŤĠĠĊŤŤĊ	2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTcccccccCCCCCCCCCC	2940
Sbjct	2881	agtattttctgaccagagtagaagcgcaactgcacgtgtgggttccccccctcaacgtcc	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ĠĠĠĠĠĠĠĠĠĠĠĊĠĊĠĸŢĠĊĊĠŢĊĸŢĊŢĠĊŢĠŢĠŢĠŢĠŢĠŢ	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	acatcaccaaactactcctggccatcttcggacccctttggattcttcaagccagtttgc	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	ttaaagtcccctacttcgtgcgcgttcaaggccttctccggatctgcgcgctagcgcgga	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	cctatgtgtataaccatctcacccctttcgagactgggcgcacaacggcctgcgagatc	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TĠĠĊĊĠŦĠĠĊŦĠŦĠĠAAĊĊĀĠŦĊĠŦĊŦŤĊŦĊĊĊĠAAŦĠĠĀĠAĊĊĀĀĠĊŦĊĀŦĊĀĊĠŦĠĠĠ	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	gggcagataccgccgcgtgcggtgacatcatcaacggcttgcccgtctctgcccgtaggg	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	ĠĊĊĀĠĠĀĠĀŦĀĊŦĠĊŦŦĠĠĠĊĊĀĠĊĊĠĀĊĠĠĀĀŦĠĠŦĊŦĊĊĀĀĠĠĠĠŦĠĠĀĠĠŦŦĠĊŦĠĠ	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660

Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTTGTGGGCTGGCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	cctcggacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccgaggtg	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	atagcagggtagcctgctttcgccccggcccatttcctacttgaaaggctcctcgggg	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTCCTCG	4380
Sbjct	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380 4440
Query	4381 4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	I GGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTICGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTICGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG  ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
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Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	ggtatgagctcacgcccgagactacagttaggctacgagcgtacatgaacaccccgg	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	ĠĠĊŦŦĊĊĊĠŦĠŦĠĊĊAĠĠAĊĊĂŦĊŦŦĠAAŦŦŦŦĠĠĠAĠĠĊĠŦĊŦŦŦAĊĠĠĠĊĊŦĊĀĊŦĊ	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ÁTATÁGÁTGCCCÁCTTTCTÁTCCCÁGÁCAÁAGCAGÁGTGGGGÁGÁACTTTCCTTÁCCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAĞCĞTACCAAĞCCACCĞTĞTĞCĞCTAĞĞĞCTCAAĞCCCCTCCCCATCĞTĞĞĞACCAĞA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	ŤĠŤĠĠĂĀĠŤĠŤŤŤĠĂŤĊĊĠĊĊŤŤĂĂĂĊĊĊĂĊĊĊŤĊĊĂŤĠĠĠĊĊĂĂĊĂĊĊĊĊŤĠĊŤĂŤĂĊĂ	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCA	5580
Query	5581 5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640 5640
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query Sbjct	5641	ATTICATCAGTGGGATACCATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
_		TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query Sbjct	5701 5701	TIGCTICATIGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTqqqqqqqTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCCTAGCTGGCGCCCCATCGGCAGCGTTGGACTGGGGAAGG	5880
Sbjct	5821	CIGCCIIIGIGGGIGCIGGCCIAGCIGGCGCCAICGGCAGCGIIGGACIGGGGAAGG	5880
Query	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGGGGGG	5940
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Sbjct	5881	TCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCCTTCA	5940
Query	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Sbjct	5941	AGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCC	6000
Query	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Sbjct	6001	TCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTG	6060
Query	6061	GCCCGGGCGAGGGGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Sbjct	6061	GCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGA	6120
Query	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Sbjct	6121	ACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6180
Query	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Sbjct	6181	TACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGG	6240
Query	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Sbjct	6241	AGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGG	6300
Query	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Sbjct	6301	TGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTC	6360
Query	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Sbjct	6361	CCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACA	6420
Query	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Sbjct	6421	CTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCG	6480
Query	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Sbjct	6481	TCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCA	6540
Query	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Sbjct	6541	CGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTG	6600
Query	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Sbjct	6601	CAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTA	6660
Query	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Sbjct	6661	CTGACAATCTTAAATGCCCGTGCCAGATCCCCATCGCCCGAATTTTTCACAGAATTGGACG	6720
Query	6721	GGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Sbjct	6721	GGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCAT	6780
Query	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Sbjct	6781	TCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGG	6840
Query	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Sbjct	6841	ACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCG	6900
Query	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGT	6960
Sbjct	6901	GGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	6960
Query	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Sbjct	6961	CCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	7020
Query	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCCGCAACATCACCAGGGTTGAGTCAG	7080

Sbjct	7021	TAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	7080
Query	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Sbjct	7081	AGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	7140
Query	7141	AGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	7200
Sbjct	7141	aggtetecgtacecgcagaaattetgeggaagteteggagattegeeeggeeetgeeeg	7200
Query	7201	TCTGGGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	7260
Sbjct	7201	tttgggcgcggccggactacaaccccccgctagtagagacgtggaaaaagcctgactacg	7260
Query	7261	AACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGC	7320
Sbjct	7261	aaccacctgtggtccatggctgcccgctaccacctccacggtccctcctgtgcctccgc	7320
Query	7321	CTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	7380
Sbjct	7321	ĊŤĊĠĠŔŔĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	7380
Query	7381	TTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	7440
Sbjct	7381	TTĠĊĊĂĊĊĂĂĂĂĠŦŦŦŦĠĠĊĂĠĊŦĊĊŦĊĂĂĊŦŦĊĊĠĠĊĂŦŦĂĊĠĠĠĊĠĂĊĂĂŦĂĊĠĂĊĂĀ	7440
Query	7441	CATCCTCTGAGCCCGCCCCTTCTGGCTGaaaaaaaaGACTCCGACGTTGAGTCCTATTCTT	7500
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Query	7501	CCATG@ccdcccTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGA	7560
Sbjct	7501	CCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGA	7560
Query	7561	CGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGA	7620
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Query	7681	GCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCC	7740
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Query Sbict	7741 7741	AAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACG	7800 7800
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Sbjct	7801	TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG TGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGG	7860
Query	7861	AAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAG	7920
Sbjct	7861		7920
Query	7921	ACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTC	7980
~ - Sbjct	7921		7980
Query	7981	TGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCG	8040
Sbjct	7981		8040
Query	8041	TTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCG	8100
Sbjct	8041		8100
Query	8101	TGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGA	8160
Sbjct	8101		8160
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Sbjct	8221	ĊĠŦĠĠĂĂĠŦĊĊĂĂĠĂĂĠĂĊĊĊĠĂŦĠĠĠĠŦŦĊŦĊĠŦĂŦĠĂŦĂĊĊĊĠĊŦĠŦŦŦŦĠĂĊŦĊĊĂ	8280
Query	8281	CAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACC	8340
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Query	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
Sbjct	8521	GGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTG	8580
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Query	8701	CCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTG	8760
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Sbjct	8761 8821	ACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATT  CCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGA	8820 8880
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Sbjct Query	8881	CCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGA	8940
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Sbjct	9061		9120
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Query	9181	ACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACT	9240
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Query	9301	CCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACC	9360

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Query
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Sbjct
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Query
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||| |||||| || ||
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Sbjct
Score = 285 bits (154), Expect = 6e-73 Identities = 177/187 (94%), Gaps = 6/187 (3%)
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Length=9599
Score = 1.731e+04 bits (9374), Expect = 0.0 Identities = 9525/9600 (99%), Gaps = 2/9600 (0%)
Strand=Plus/Plus
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                                                        120
Query
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     61
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Query
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                                                        240
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Query
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Sbjct
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Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
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Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	ctgccagggccctggcgcatggcgtccgggttctggaagacggcgtgaactatgcaacag	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTTTGCCTGACTG	900
Sbjct	841	ggaaccttcctggttgctctttctctatcttccttctggccctgctctcttgcctgactg	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TĠĊĊĊĠĊŦŦĊĂĠĊĊŦĂĊĊĂĂĠŦĠĊĠĊĀĂŦŦĊĊŦĊĠĠĠĠĊŦŦŦĂĊĊĂŦĠŦĊĂĊĊĂĂŦĠĂŦŦ	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAATTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTTCTTG	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTGT	1259
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTGT	1259
Query	1260	TCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGAACTGG	1319
Sbjct	1260	TCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGAACTGG	1319
Query	1320	TCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGAC	1379
Sbjct	1320	TCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGAC	1379
Query	1380	ATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Sbjct	1380	ATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
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Query	1620	TTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAA	1679

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~ <sup>1</sup> Sbjct	1680		1739
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Sbjct	1920	TACAGCTGGGGTGCAAATGACACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTG	1979
Query	1980	GGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCG	2039
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Query Sbjct	2280	ACGCGGGGCGAACGCIGIGAICIGGAAGACAGGGACAGGICCGAGCICAGCCCGIIGCIG	2339
Query	2340	CTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCC	2399
Sbjct	2340		2399
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Sbjct	2400		2459
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Query	4260	GGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4319
Sbjct	4260	GGAGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4319
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Sbjct	4380	GCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCT	4439
Query	4440	CTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG	4499
Sbjct	4440	CTGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAG	4499
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Sbjct	4500	gggggaagacatctcatcttctgtcactcaaagaagaagtgcgacgagctcgccgcgaag	4559
Query	4560	CTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4619
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Sbjct	4740	GACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAG	4799
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Sbjct	4800	CGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAG	4859
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Sbjct	4860	cgcccctccggcatgttcgactcgtccgtcctctgtgagtgctatgacgcgggctgtgct	4919
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Query	5040	CATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTG	5099

01- 1-1	E 0 4 0		F000
Sbjct	5040	CATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGGAGAACTTTCCTTACCTG	5099
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Query	5220	AGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATCATG	5279
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Sbjct	5460		5519
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Sbjct	5700		5759
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Query	5820	ACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGAAG	5879
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Query	5880	GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
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Sbjct	6000	CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT	6059
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Sbjct	6300		6359
Query	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
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Query	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
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Sbjct	6480	gtcggtcctaggacctgcaggaacatgtggagtgggacgttcctcattaacgcctacacc	6539
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Query	7200	GTCTGGGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
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Sbjct	7500		7559
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Sbjct	7740	CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
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Query	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTT	7979
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Query Sbjct	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
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Sbjct	8040		8099
Query	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Sbjct	8100		8159
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Sbjct	8460	ACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
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Sbjct	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
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Sbjct	9120	ĠŤĊĊĠĊĠĊŦĂĠĠĊŤŤĊŤĠŤĊĊĂĠĠĠĠĠĠĠĠĊĬĠĊĊĂŦĂŤĠŤĠĠĊĂĂĠŤĂĊĊŤĊŤŤĊ	9179
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Sbjct	9360	CTCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGTT	9419
Query	9420		9479
Sbjct	9420	i i i i i i i i i i i i i i i i i i i	9479
Query	9480	otttottttagcctagtcacgctagctgtga	9539
Sbjct	9480	ĊŢŢĊŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ	9539
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Sbjct	1140		1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258
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Query	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGAACTG	1318
Sbjct	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Query	1319	GTCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Sbjct	1319	gtcccctacggcagcgttggtagctcagctgctccggatcccacaagccatcatgga	1378
Query	1379	CATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379	CATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
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Sbjct	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Query	1499	CGTCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
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Sbjct Query	1559 1619	CGCCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1618 1678
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Query	1679	ATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Sbjct	1679		1738
Query	1739	CCAGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTG	1798
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Query	1799	CTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799		1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1918
Sbjct	1859		1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGC	2038
Sbjct	1979	gggcaartggttcggttgtacctggatgaactcaactggattcaccaaagtgtgcggagc	2038
Query	2039	GCCCCTTGTGTCATCGGAGGGGTGGGCAACACCCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	ĠĊĊĊĊŤŦĠŦĠŦĊĂŦĊĠĠĂĠĠĠĠŦĠĠĠĊĂĂĊĂĊĊŤŦĠĊŦĊŦĠĊĊĊĊĂĊŦĠĂŦŦĠĊŦŦ	2098
Query	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218

Sbjct	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCT	2338
Sbjct	2279	GACGCGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Query	2339	GCTGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTC	2398
Query	2399	CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399	CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGG	2458
Query	2459	GTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCT	2518
Sbjct	2459	gtcaagcatcgcgtcctgggccattaagtgggagtacgtcgttctcctgttccttctgct	2518
Query	2519	TGCAGACGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519	TĠĊAĠAĊĠĊĠĊĠĊĠŦĊŦĠĊŦĊĊŦĠĊŦŦĠŦĠĠĀŦĠŦŦĀĊŦĊĀŦĀŦĊĊĊĀĀĠĊĠĠĀĠĠĊ	2578
Query	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639	GTCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2698
Sbjct	2639	GTCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2698
Query	2699	GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699	GGTCTACGCCTTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCG	2758
Query	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Sbjct	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Query	2819	AATGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819	AATGGCGCTGACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTccccccGTCAACGT	2938
Sbjct	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTCCCCCCCTCAACGT	2938
Query	2939	CCqqqqqqqCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939	CCGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTTTTACACCCGACTCTGGTATT	2998
Query	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059	GTTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119	GAAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177
Sbjct	3119	GAAGATGA-CCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTG	3177
Query	3178	GCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAG	3237
Sbjct	3178	GCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAG	3237
Query	3238	ATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGT	3297
Sbjct	3238	ATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGT	3297
Query	3298	GGGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTA	3357

Sbjct	3298	GGGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTA	3357
Query	3358	GGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGC	3417
Sbjct	3358	GGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGC	3417
Query	3418	TGGCGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCA	3477
Sbjct	3418	TGGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCA	3477
Query	3478	GCCTGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
Sbjct	3478	GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGT	3537
Query	3538	CCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG	3597
Sbjct	3538	CCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG	3597
Query	3598	GAACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACC	3657
Sbjct	3598	GAACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACC	3657
Query	3658	AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCG	3717
Sbjct	3658	AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCG	3717
Query	3718	GCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAG	3777
Sbjct	3718	GCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAG	3777
Query	3778	GTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGG	3837
Sbjct	3778	gratagcaggggragccractriccccggcccatricctaccraaaaggctccrcgg	3837
Query	3838	GGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCA	3897
Sbjct	3838	ggggtccgctgttgtgccccgcgggacacgccgtgggcctattcagggccgcggtgtgca	3897
Query	3898	CCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGA	3957
Sbjct	3898	CCCGTGGAGTGGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGA	3957
Query	3958	GATCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGG	4017
Sbjct	3958	GATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGG	4017
Query	4018	CCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAG	4077
Sbjct	4018	cccaccigcatgcicccaccggcagiggtaagagcaccaaggicccggcigcgtacgcag	4077
Query	4078	CCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4137
Sbjct	4078	CCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4137
Query	4138	CTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTA	4197
Sbjct	4138	ĊŢŢŖĊĸŢĠŢĊĊĸĸĠĠĊĊĊĸŢĠĠĠĠŢĊĠĸŢĊĊŢĸĸŢĸŢĊĸĠĠĸĊĊĠĠĠĠŢĠĸĠĸĸĊĸĸŢĸ	4197
Query	4198	CCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT	4257
Sbjct	4198	ccactggcagcccatcacgtactccacctacggcaagttccttgccgacggcgggtgct	4257
Query	4258	CAGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACACCA	4317
Sbjct	4258	CAGGAGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Query	4318	TCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4377
Sbjct	4318	TCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4377
Query	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTG	4437
Sbjct	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTG	4437
Query	4438	CTCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATC	4496

Sbjct	4438	CTCTGTCCACCACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Query	4497	AAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCG	4556
Sbjct	4497	AAGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCG	4556
Query	4557	AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4616
Sbjct	4557	AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	4616
Query	4617	ATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Sbjct	4617	ATCCCGACCAGCGGCGATGTTGTCGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Query	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGC	4736
Sbjct	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGC	4736
Query	4737	CTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACT	4796
Sbjct	4737	CTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACT	4796
Query	4797	CAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGG	4856
Sbjct	4797	CAGCGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGG	4856
Query	4857	GAGCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Sbjct	4857	GAGCGCCCCCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Query	4917	GCTTGGTATGAGCTCACGCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Sbjct	4917	GCTTGGTATGAGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Query	4977	CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTC	5036
Sbjct	4977	CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTC	5036
Query	5037	ACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTAC	5096
Sbjct	5037	acccatatagatgcccactttctatcccagacaaagcagagtgggggagaactttccttac	5096
Query	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGAC	5156
Sbjct	5097	ĊŢĠĠŢŖĠĊĠŢŖĊĠĸĠĊĠŢĠŢĠĊĠĊŢŖĠĠĊŢĊĸĸĠĊĊĊĊŢĊĊĊĊĸŢĊĠŢĠĠĠĸĊ	5156
Query	5157	CAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Sbjct	5157	CAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Query	5217	TACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
Sbjct	5217	TACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
Query	5277	ATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGC	5336
Sbjct	5277	atgacatgcatgtcggccgacctggaggtcgtcacgagcacctgggtgctcgttggcggc	5336
Query	5337	GTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGG	5396
Sbjct	5337	GTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGG	5396
Query	5397	ATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTC	5456
Sbjct	5397	ATTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTC	5456
Query	5457	GATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCT	5516
Sbjct	5457	GATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCT	5516
Query	5517	GAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTT	5576
Sbjct	5517	GAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTT	5576
Query	5577	ATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATG	5636

Sbjct	5577		5636
Query	5637	TGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCC	5696
Sbjct	5637		5696
Query	5697	GCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAA	5756
Sbjct	5697		5756
Query	5757	ACCCTCCTCTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCC	5816
Sbjct	5757		5816
Query	5817	GCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCCATCGGCAGCGTTGGACTGGGG	5876
Sbjct	5817		5876
Query	5877	AAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCA	5936
Sbjct	5877	AAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA	5936
Query	5937	TTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCC	5996
Sbjct	5937	TTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCC	5996
Query	5997	ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
Sbjct	5997	ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
Query	6057	GTTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGG	6116
Sbjct	6057	GTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGG	6116
Query	6117	GGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6176
Sbjct	6117	gggaaccatgtttcccccacgcactacgtgccggagagcgatgcagccgcccgc	6176
Query	6177	GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGC	6236
Sbjct	6177	gccatactcagcagcctcactgtaacccagctcctgaggcgactacatcagtggataagc	6236
Query	6237	TCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGC	6296
Sbjct	6237	tcggagtgtaccactccatgctccggctcctggctaagggacatctgggactggatatgc	6296
Query	6297	GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGG	6356
Sbjct	6297	GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGG	6356
Query	6357	ATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATG	6416
Sbjct	6357	ATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Query	6537	ACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	accacgggcccctgtactccccttcctgcgccgaactataagttcgcgctgtggagggtg	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATG	6656
Sbjct	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATG	6656
Query	6657	ACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTG	6716
Sbjct	6657	actactgacaatcttaaatgcccgtgccagatcccatcgcccgaatttttcacagaattg	6716
Query	6717	GACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTA	6776

Cl +	6717		6776
Sbjct Query	6777	GACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTA  TCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAA	6836
Sbjct	6777		6836
Query	6837	CCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6896
Sbjct	6837		6896
Query	6897	GCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAG	6956
Sbjct	6897		6956
Query	6957	CTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAG	7016
Sbjct	6957		7016
Query	7017	CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAG	7076
Sbjct	7017		7076
Query	7077	TCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAG	7136
Sbjct	7077		7136
Query	7137	CGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTG	7196
Sbjct	7137	CGGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTG	7196
Query	7197	CCCGTCTGGGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGAC	7256
Sbjct	7197	CCCGTTTGGGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGAC	7256
Query	7257	TACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCT	7316
Sbjct	7257	TACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCT	7316
Query	7317	CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCC	7376
Sbjct	7317	CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTA	7376
Query	7377	GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACG	7436
Sbjct	7377	GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATG	7436
Query	7437	ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGcccccaGACTCCGACGTTGAGTCCTAT	7496
Sbjct	7437	ACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTAT	7496
Query	7497	TCTTCCATGgggggaGGGGGGGGGCCTGGGGATCCGGATCTCAGCGACGGGTCATGG	7556
Sbjct	7497	TCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTCAGCGACGGGTCATGG	7556
Query	7557	TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCC	7616
Sbjct Querv	7557 7617	TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA	7616 7676
Sbjct	7617	IGGACAGGCGCACICGICACCCCGIGCGCIGCGGAAGAACAAAACIGCCCAICAACGCA	7676
Query	7677	CTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCT	7736
Sbjct	7677	CTGAGCAACTCGTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCT CTGAGCAACTCGTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCT	7736
Query	7737	TGCCAAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAG	7796
Sbjct	7737		7796
Query	7797	GACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Sbjct	7797		7856
Query	7857	GAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCA	7916

Sbjct	7857	GAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCA	7916
Query	7917	AAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGAC	7976
Sbjct	7917	AAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGAC	7976
Query	7977	CTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTC	8036
Sbjct	7977	CTTCTGGAAGACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTC	8036
Query	8037	TGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTG	8096
Sbjct	8037	TGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTG	8096
Query	8097	GGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCC	8156
Sbjct	8097	GGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCC	8156
Query	8157	GTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTG	8216
Sbjct	8157	GTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTG	8216
Query	8217	CAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGAC	8276
Sbjct	8217	CAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGAC	8276
Query	8277	TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Sbjct	8277	TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
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Query	8757	CGTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTC	8816
Sbjct	8757	CGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACACACAC	8816
Query	8817	AATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTG	8876
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Query	8877	ATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGT	8936
Sbjct	8877		8936
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>dbj|DD070077.1| PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS
Length=9622
Score = 1.713e+04 bits (9277), Expect = 0.0 Identities = 9515/9626 (98%), Gaps = 31/9626 (0%)
Strand=Plus/Plus
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Query
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Sbjct	360		419
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Query	480	CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCC	539
Sbjct	480	CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGTGGTAGACGTCAGCCTATCCCC	539
Query	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTAT	599
Sbjct	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTAT	599
Query	600	GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGC	659
Sbjct	600	ĠĠĊAATĠAĠĠĠŦŦĠĊĠĠĠŦĠĠĠĊĠĠĠAŦĠĠĊŦĊŦĠŦĊŦĊĊĊĠŦĠĠĊŦĊŦĊĠĠĊĊŦĀĠĊ	659
Query	660	TGGGGCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTT	719
Sbjct	660	TGGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTT	719
Query	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGC	779
Sbjct	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGC	779
Query	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACA	839
Sbjct	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACA	839
Query	840	GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Sbjct	840	GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Query	900	GTGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Sbjct	900	GTGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Query	960 960	TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019 1019
Sbjct Query	1020	GTCCCTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1019
Sbjct	1020		1079
Query	1080	GCCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080		1139
Query	1140	GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1199
Sbjct	1140		1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258
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Query	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Sbjct	1259		1318
Query	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Sbjct	1319		1378
Query	1379	CATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379		1438
Query	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
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Query	1499	CGTCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558

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Sbjct	1559		1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619		1678
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Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1918
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Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGC	2038
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Query	2039	GCCCCTTGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTT	2098
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Sbjct	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
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Sbjct	2459		2518
Query	2519	TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
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Sbjct	2699	ĠĠŦĊŦĀĊĠĊĊŦŦĊŦĀĊĠĠĠĀŦĠŦĠĠĊĊŦĊŦĊĊŦĊĊŦĠĊŦĠĊŦĠĠĊĠŦŦĠĊĊŦĊĀĠĊĠ	2758
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Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
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Query	3119	GAAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177
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Query	3358	GGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGC	3417
Sbjct	3358	ggggccaggagatactgcttgggccagccgacggaatggtctccaaggggtggaggttgc	3417
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Sbjct	3418	TGGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCA	3477
Query	3478	GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
Sbjct	3478	GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
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Query	4078	CCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4137
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Query	4138	CTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTA	4197
Sbjct	4138	ĊŢŢŖĊĸŢĠŢĊĊĸĸĠĠĊĊĊĸŢĠĠĠĠŢĊĠĸŢĊĊŢĸĸŢĸŢĊĸĠĠĸĊĊĠĠĠĠŢĠĸĠĸĸĊĸĸŢŢĸ	4197
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Query	4258	CAGGAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Sbjct	4258	CAGGAGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Query	4318	TCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4377
Sbjct	4318	TCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4377
Query	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCCATCCTAACATCGAGGAGGTTG	4437
Sbjct	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTG	4437
Query	4438	CTCTGTCCACCACCGGAGAGCTCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Sbjct	4438	ĊŦĊŦĠŦĊĊĂĊĊĠĊĠĠĀĠĀŦĊĊĊ~ŦŦŦĊŦĀĊĠĠĊĀĀĠĠĊŦĀŦĊĊĊĊĊŦĊĠĀĠĠŦĠĀŦĊ	4496
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Query	4557	AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4616
Sbjct	4557	AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	4616
Query	4617	ATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Sbjct	4617	ATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Query	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGC	4736
Sbjct	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGC	4736
Query	4737	CTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACT	4796
Sbjct	4737	CTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACT	4796
Query	4797	CAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGG	4856
Sbjct	4797	CAGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGG	4856
Query	4857	GAGCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Sbjct	4857	GAGCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Query	4917	GCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976

Sbjct	4917	GCTTGGTATGAGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Query	4977	CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTC	5036
Sbjct	4977	CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTC	5036
Query	5037	ACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTAC	5096
Sbjct	5037	ACCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTAC	5096
Query	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGAC	5156
Sbjct	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGAC	5156
Query	5157	CAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Sbjct	5157	CAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Query	5217	TACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
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Query Sbjct	5757	ACCCTCCTCTCAACATATTgggggggTGGGTGGCCCAGCTCGCCGCCCCCGGTGCC	5816
Query	5817	GCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCATCGGCAGCGTTGGACTGGGG	5876
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Query	2459	GTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCT	2518
Sbjct	2459	GTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCTGCT	2518
Query	2519	TGCAGACGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519	TGCAGACGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579 2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638 2638
Sbjct Query	2639	GTCCTTCCTCGTGTTCTTCTGCTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2698
Sbjct	2639		2698
Query	2699	GGTCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGTGCCTCAGCG	2758
Sbjct			2758
Query	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Sbjct	2759		2818
Query	2819	AATGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819		2878
Query	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTcccccctCAACGT	2938
Sbjct	2879		2938
Query	2939	CCgggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939	CCGGGGGGGCGCGATGCCGTCATCTTACTCATGTTGTTACACCCGACTCTGGTATT	2998
Query	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059	gtttaaagtcccctacttcgtgcgcgttcaaggccttctccggatctgcgcgctagcgcg	3118
Query	3119	GAAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177

Sbjct	3119	GAAGATGA-CCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTG	3177
Query	3178	GCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAG	3237
Sbjct	3178	GCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAG	3237
Query	3238	ATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGT	3297
Sbjct	3238	ATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGT	3297
Query	3298	GGGGGCAGATACCGCCGCGTGCGGTGACATCAACGGCTTGCCCGTCTCTGCCCGTA	3357
Sbjct	3298	GGGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTA	3357
Query	3358	GGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGC	3417
Sbjct	3358	ggggccaggagatactgcttgggccagccgacggaatggtctccaaggggtggaggttgc	3417
Query	3418	TGGCGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCA	3477
Sbjct	3418	TĠĠĊĠĊĊĊĂTĊĀĊĠĠĊĠŦĀĊĠĊĊĊĀĠĊĀĠĀĠĀĠĠĠĠĊĊĊĊŦĀĠĠĠŦĠŦĀŦĀĀŦĊĀĊĊĀ	3477
Query	3478	GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
Sbjct	3478	GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTA	3537
Query	3538	CCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG	3597
Sbjct	3538	CCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCG	3597
Query	3598	GAACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACC	3657
Sbjct	3598	GAACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACC	3657
Query	3658	AAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCG	3717
Sbjct	3658	AAGACCTTGTGGGCCGGCCCCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCG	3717
Query	3718	GCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAG	3777
Sbjct	3718	GCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAG	3777
Query	3778	GTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGG	3837
Sbjct	3778	GTGATAGCAGGGGTAGCCTGCTTTTGCCCCGGCCCATTTCCTACCTA	3837
Query	3838	GGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCA	3897
Sbjct	3838	GGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCA	3897
Query	3898	CCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGA	3957
Sbjct	3898	CCCGTGGAGTGGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGA	3957
Query	3958	GATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGG	4017 4017
Sbjct	3958 4018	CCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAG	4017
Query Sbjct	4018		4077
Query	4078	CCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4137
Sbjct	4078		4137
Query	4138	CTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTA	4197
Sbjct	4138		4197
Query	4198	CCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCT	4257
Sbjct	4198		4257
Query	4258	CAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Z ~ C + 1			101,

Sbjct	4258	CAGGAGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCA	4317
Query	4318	TCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4377
Sbjct	4318	TCTTGGGCATCGGCACTGTCCTTGACCAAGCAGACTGCGGGGGGGG	4377
Query	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTG	4437
Sbjct	4378	TCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTG	4437
Query	4438	CTCTGTCCACCACCGGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Sbjct	4438	CTCTGTCCACCACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATC	4496
Query	4497	AAGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCG	4556
Sbjct	4497	AAGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCG	4556
Query	4557	AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4616
Sbjct	4557	AAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	4616
Query	4617	ATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACC	4676
Sbjct	4617	atcccgaccagcgacgatgttgtcgtcgtcgaccgatgctctcatgactggctttacc	4676
Query	4677	GGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGC	4736
Sbjct	4677	ggcgacttcgactctgtgatagactgcaacacgtgtgtcactcagacagtcgatttcagc	4736
Query	4737	CTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACT	4796
Sbjct	4737	ĊŢŢĠĊĊĊŢĠĊĊŢŢŢĠĊĠŢŢĠĠĠĠĊŢĠĊĊĊĠĠĠĠŢĠĊŢĠŢĊŢĊĊĠĠĠĊŢ	4796
Query	4797	CAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGG	4856
Sbjct	4797	CAGCGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGG	4856
Query	4857	GAGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Sbjct	4857	GAGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGT	4916
Query	4917	GCTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC	4976
Sbjct	4917	ĠĊŢŢĠĠŢŔŢĠŔĠĊŢĊŔŢĠĊĊĠĊĊĠŔĠŔĊŢŔĊŔĠŢŢŔĠĠĊŢŔĊŔŢĠŔŔĊŔĊĊ	4976
Query	4977	CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTC	5036
Sbjct	4977	CCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTC	5036
Query	5037	ACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTAC	5096
Sbjct	5037	ACCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTAC	5096
Query	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGAC	5156
Sbjct	5097	CTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGAC	5156
Query	5157	CAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Sbjct	5157	CAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTA	5216
Query	5217	TACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
Sbjct	5217	TACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATC	5276
Query	5277	ATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGC	5336
Sbjct	5277	ATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGC	5336
Query	5337	GTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGG	5396
Sbjct	5337	GTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGG	5396
Query	5397	ATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTC	5456

Sbjct	5397	ATTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTC	5456
Query	5457	GATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCT	5516
Sbjct	5457	GATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCT	5516
Query	5517	GAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTT	5576
Sbjct	5517	GAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTT	5576
Query	5577	ATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATG	5636
Sbjct	5577	ATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATG	5636
Query	5637	TGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCC	5696
Sbjct	5637	TĠĠAATTTĊATĊAĠTĠĠĠATAĊAATATTTĠĠĊĠĠĠĊĊŢĠŢĊAAĊĠĊŢĠĊĊŢĠĠŢAAĊĊĊĊ	5696
Query	5697	GCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAA	5756
Sbjct	5697	gCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAA	5756
Query	5757	ACCCTCCTCTCAACATATTggggggGGGGGGCTGCCCAGCTCGCCGCCCCCGGTGCC	5816
Sbjct	5757	ACCCTCTCTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCC	5816
Query	5817	GCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCCATCGGCAGCGTTGGACTGGGG	5876
Sbjct	5817	ĠĊŦŔĊĊĠĊĊŦŦŦĠŦĠĠĠĊĠĊŦĠĠĊŦŦŔĠĊŦĠĠĊĠĊĊĠĊĊŔŦĊĠĠĊŔĠĊĠŦŦĠĠŔĊŦĠĠĠĠ	5876
Query	5877	AAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA	5936
Sbjct	5877	AAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCA	5936
Query	5937	TTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCC	5996
Sbjct	5937	TTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCC	5996
Query	5997	ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
Sbjct	5997	ATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCAC	6056
Query	6057	GTTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGG	6116
Sbjct	6057	GTTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGG	6116
Query	6117	GGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6176
Sbjct	6117	GGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6176
Query	6177	GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGC	6236
Sbjct	6177	GCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGC	6236
Query	6237	TCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGC	6296
Sbjct	6237	TCGGAGTGTACCACTCCATGCTCCGGCTCCTGGCTAAGGGACATCTGGGACTGGATATGC	6296
Query	6297	GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGG	6356
Sbjct	6297	GAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGG	6356
Query	6357	ATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATG	6416
Sbjct	6357	ATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Query	6537	ACCACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTG	6596

Outery         6597         TCTGCAGAGGAATACGTGGAGATAAGGCGGTGGGGGACTTCCACTACGTATCGGTATGG         6656           Sbjet         6597         TCTGCAGAGGAATACGTGGAGATAAGGCGGTGGGGACTTCCACTACGTATCGGTATGG         6656           Cury         6657         ACTACTGACAATCTTAAATGCCGGTGCCAGATCCCTCTGCACACTTTCACTACGTATCGGTATG         6716           Sbjet         6577         ACTACTGACAATCTTAAATGCCGGTGCCAGATCCACTGCGCCAATTTTCACAGAATTG         6716           Guery         6717         GACGGGTGCCCCTTACAGGGTTTGCGCCCCCCCTTGCAGACCCTGTGCGGGGGGGG	Sbjct	6537		6596
Sbjet         6597         TCTGCAGAGGATHACGTGAGATHAGCCGGTGCGAGATTCCACTACGGTATCGGTATCGGTAGGGTAGG         6656           Query         6557         ACTACTGACAACTTAAATGCCGGTGCCAGATCCACTCCGCCGGATTTTTCACAGATTG         6716           Sbjet         6577         ACTACTGACAACTTAAATGCCGGTGCCAGATCCACTCGCCGGATTTTTCACAGATTG         6716           Cuery         6717         GACGGGTCCGCCTACACAGGTTTCGCCCCCCTTGCAAGCCCTTGCTGCAGAGATCACAGTTTTCACAGAGTTGGAGCGCAGA         6736           Sbjet         6717         TCATTCAGAGTAGGACTCCACGATTTTCCGCGTGCGGTGCGCCCAATTCCTGCAGGCCCGAA         6836           Sbjet         6737         TCATTCAGAGTAGGACTCCACGATTTCCGCGTGGTGCCCAATTAACAGCAGAGGC         6836           Sbjet         6737         TCATTCAGAGTAGGACTCCACCGGTGTTGCCCGTGTGTCCCCATATTAACAGCAGAGGC         6896           Sbjet         6737         TCATTCAGAGTAGGACTCCACCGGTTGTCACCGTCCAATTAAACAGCAGAGGC         6896           Sbjet         6837         CCGGGCGAGAAGGTTGCCCCATGCCCCCTTCTTATGCCCACTAATTAACAGCAGCAGCAGCAGCAGAGAGTGGCCCATGACCCCCCTGACCCAGCCACCAGCAGAGAGAG	Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATG	6656
Sbjet         6657         ACTACTORCAPACTTIANATOCCCGIGGCAGATCCCAGCGCCGATTITTCACAGAGGGGTA         6716           Query         6717         GACGGGGTGCCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGAGGGTA         6776           Sbjet         6717         GACGGGGTGCCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGAGGGTA         6776           Cuery         6777         TCATICAGAGTAGGACTCCACCAGTTACCCGGTGGGGTCGCAATTACCTTGGGAGCCCGAA         6836           Sbjet         6777         TCATICAGAGTAGGACTCCACCAGTTACCCGGTTGAGCCCCCATATACACCCGAAGCCGAA         6836           Ouery         6837         CCGGACGTAGCCCTCTTCTACAGCCCCATATACACCCCAGAGGGG         6896           Ouery         6893         CCGGACGTAGCCCTCTTCTACAGCCACTGATCCCCCCCTTCTATACACCACAGAGGGC         6896           Ouery         6897         GCCGGGACAAGGTTGGCGACAGGGTCACCCCTTCTATAGCCACCTCTCTGGGCTAGCAGG         6956           Ouery         6957         CTGTCCGCTCCATCTCTCAAGGCAACTTGCACCCCCTTCTATAGCCACCTCCTGGGCAACCATGAGCAGGAGGAGGAGGAGGAGGAACATCACCAGGGTTGAG         7016           Ouery         7017         CTCATAGAGCATAACCTCCTGTGGAGCACGAGAGAGGAGCAACATCACCAGGGTTGAG         7076           Sbjet         7017         TCATAGAGACAAAGTGATTCTGCACCCCTTCATACCCCCGGCAACCATTCACCACGGGAACATCACCAGGGTTGAG         7036           Ouery         7137         CCGGCAGGAACAAGTGATTCTGCAGCAGAATTCACCACCTCCAGGAGACAGGAGAGGAGGAGGAGGAACAGGAACAATCACCCTATCATCCCCTGGCTTCACCAGAACATCCCCCCGCTACCACCAGAGCACT	Sbjct	6597		6656
Sbjet         657         ACTACTGGACAATCTTAAATCCCCCGTGCCCCCTTGCAAGCCCTTGCTGCGGGAGAGGTA         6716           Query         6717         GACGGGGTGCGCCTACAACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGAGGTA         6776           Sbjet         6717         GACGGGGTGCGCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGAGGTA         6776           Sbjet         6777         TCATTCAGAGTAGGACTCCACGAGTTGCCCGTGCGAATTACTCTTGCGAGCCGAA         6836           Sbjet         6837         CCGGACTAGCCGTGTTGACGTCCACGAGTACCCGGTGCGCAATTACATTGCACAGAGAGGC         6896           Sbjet         6837         CCGGACGTAGCCGTGTTGACGTCCACGAGTCCCCCCTAATAACAGCAGAGGCG         6896           Query         6837         CCGGACGAGAGGTTGGCGCACAGGGTCACCCCCTTCTATGGCCAGCTCCTGCCAAGCCCAG         6956           Sbjet         6837         CCGGACACAGTTCCCACTCTCTCAAGGCACCCCCTTCTATGGCCAGCCCAGCCAG	Query	6657		6716
Sbjet         6717         GAGGGGGGGGCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCGGGGAGGAGGGG         6767           Query         6777         TCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGTCGCAATTACCTTGCGAGCCCGAA         6836           Sbjet         6777         TCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGTCCCATATTACCTTGCGAGCCCGAA         6836           Query         6837         CCGGGACTAGCCGTGTTGAGGTCCATGGTCACTGCCCATATTACACACGAGAGGG         6896           Sbjet         6837         CCGGGAGGAGGTTGCCGAGGGGTCCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAG         6956           Sbjet         6897         GCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	Sbjct	6657		6716
Sbjet         6117         GAĞĞĞĞĞĞĞĞĞĞĞĞĞÜTAĞTAĞĞATCCCĞĞTĞĞĞĞĞĞĞĞĞĞ	Query	6717		6776
Sbjet         6777         TCATCAGAGTIGAGCATCACCAGTACCCGGGGGGGGGGGATTACCTTGGGGCCGAA         688           Query         6837         CCGGACGTIGACCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGGG         6896           Sbjet         6837         CCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	Sbjct	6717		6776
Babjet         6777         TÖÄRTÖÄGÄGÄGÄGÄGÄGÖÄCÖÖÄÄÄGÄGÄGÖÖÖÄÄÄÄÄÄÄÄÄÄ	Query	6777		6836
Sbjet         6837         CCGGGGAGGAGGGTTGGCGTGTGAGGTCCTTCCATATACAGGAGAGGGG         6896           Query         6897         GCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCATGGCCAGTCCTCGGCTAGCCAG         6956           Sbjet         6897         GCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTGGGCTAGCCAG         6956           Query         6957         CTGTCCGCTCCATCTCTCAAGGCAACTTCGCACCGCCAACCATGACTCCCCTGACCCCAG         7016           Sbjet         6957         CTGTCCGCTCCATCTCTCAAGGCAACTTCGCCCCCCAACCATGACTCCCCTGAGCCCCAG         7016           Sbjet         7017         CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTCAG         7076           Sbjet         7017         CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTCAG         7076           Sbjet         7017         CTCATAGAGGCTAACCTCCTTGGAGCCCGCAACATCACCACGAGGAGAGAGA	Sbjct	6777		6836
Sbjet         6837         CCGGACGTAGCCGTGTTGACGTCCATCGTATCCCCCATATAACAGCAGAGGCG         6896           Query         6897         GCCGGAGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	Query	6837		6896
Sbjet         6897         GCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCCA	Sbjct	6837		6896
Query         6957         CTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAA         7016           Sbjet         6957         CTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATCACCCTGACGCCGAA         7016           Query         7017         CTCATAGAGGCTAACCTCCTTGGAGGCAGGAGGAGGCGCAACATCACCAGGGTTGAG         7076           Sbjet         7017         CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGGCGCAACATCACCAGGGTTGAG         7076           Query         7077         TCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGAGAG	Query	6897		6956
Sbjet 6957 CTGTCCGCTCCAAGGCAACCTGCACCGCAACCATGACTCCCTGACGCCGAG 7016  Query 7017 CTCATAGAGGCTAACCTCCTGAGGCAGCAGCAGCAGCACATCACCACGGTTGAG 7076  Sbjet 7017 CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCCGCAACATCACCAGGGTTGAG 7076  Query 7077 TCAGAGAACAAGTGGTGATTCTGGACGCCTCTTGGACGCGCAACATCACCAGGGTTGAG 7076  Sbjet 7077 TCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGAGAG 7136  Sbjet 7077 TCAGAGAACAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAC 7136  Query 7137 CGGGAGGTCTCCGTACCTGCAGAAATTCTGCGAAGATCTCGCGAGAGTTCGCCGGGCCCTG 7196  Sbjet 7137 CGGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTG 7196  Query 7197 CCCGTTTGGGCGCGGCGGCCGGACATCAACCCCCCGTAGTAGAGAACGTGGAAAAAGCCTGAC 7256  Sbjet 7197 CCCGTTTGGGCGCGGCGGCCGGACTACAACCCCCCGCTAGTAGAGAACGTGGAAAAAGCCTGAC 7256  Query 7257 TACGAACCACCTGTGGTCCATGGCTGGCCGGTACCACCTCCACGGTCCCTCTGTGCCT 7316  Sbjet 7317 CCGCCTCGGAAAAAGCGTACGGTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCT 7316  Query 7317 CCGCCTCGGAAAAAGCGTACGGTGGCCCGCTACCACCTCCACGGTCCCCTCTTGGCC 7376  Sbjet 7317 CCGCCTCGGAAAAAGCGTACGGTGGCCCGCTACCACCTCCACGGTCCCCTCTTGGCC 7376  Sbjet 7317 CCGCCTCGGAAAAAGCGTACGGTGGCCCGCTACCACCTCCACGGTCCCTCTTTGGCC 7376  Query 7377 GAGCTTGCCACCAAAAGTTTTGCAGCACCTCCACCGAATCAACCCTACTACTGCCTTTGGCC 7376  Sbjet 7377 GAGCTTGCCACCAAAAGTTTTGCAGCTCCACCGAATCAACCCTACTACTGCCTTTGGCC 7376  Sbjet 7377 GAGCTTGCCACCAAAAGTTTTGCAGCTCCCACCGAATCACCCTCCACGGTTGAGTCCTAT 7496  Sbjet 7377 GAGCTTGCCACCAAAAGTTTTGCAGCTCCACCGAATCACGCACTCCACGGTTGAGTCCTAT 7496  Sbjet 7377 GAGCTTGCCCCCCCGAAAAAGCTTTGCAGGAGGAACACCTACCT	_		GCCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	
Query         7017         CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAG         7076           Sbjet         7017         CTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAGGGGGCAACATCACCAGGGTTGAG         7076           Query         7077         TCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGAGAG	_			
Sbjet 7017 CTCATAGAGGCTAACCTCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAG 7076 Query 7077 TCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGAGGATGAG 7136 Sbjet 7077 TCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGGAGGAGGATGAG 7136 Query 7137 CGGGAGGTCTCCGTACCCGCAGAAAATTCTGCGGAAGTCTCGGAGTTCGGCCCGGGCCCTG 7196 Sbjet 7137 CGGGAGGTCTCCGTACCCGCAGAAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTG 7196 Query 7197 CCCGCTCTGGGCGCCGGACCAAAATCTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTG 7196 Sbjet 7197 CCCGCTTGGGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGAC 7256 Sbjet 7257 TACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCT 7316 Sbjet 7257 TACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCT 7316 Query 7317 CCGCCTCGGAAAAAGCGTACAACCCCCCGCTAACAACCCCCCCC	_			
Query         7077         TCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGATGAG         7136           Sbjet         7077         TCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGAGAGA	_			
Sbjet 7077 TCAGAGAACAAAGTGTGATCCTGAGCATCCGCTTGTGGCAAGAGAGAG	_			
Query7137CGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTG7196Sbjet7137CGGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCGGGCCCTG7196Query7197CCCGTCTGGGCGGGCGGGACATACAACCCCCCGCTAATAGAGACGTGGAAAAAGCCTGAC7256Sbjet7197CCCGTTTGGGCGGCGGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGAC7256Query7257TACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCT7316Sbjet7257TACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCT7316Query7317CCGCCTCGGAAAAAGCGTACGGTGGCCCGCTACCACCTCCCACGGTCCCCTCCTGTGCCT7316Sbjet7317CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTA	_			
Sbjet 7137 CGGGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTTCGGGAGATTCGCCCGGGCCCTG 7196  Query 7197 CCCGTTTGGGCGGCGGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAAGCCTGAC 7256  Sbjet 7197 CCCGTTTGGGCGGCGGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAAGCCTGAC 7256  Query 7257 TACGAACCACCTGTGGTCCATGGCTGCCCGCTAGTAGAGACGTGGAAAAAAGCCTGAC 7256  Query 7317 CCGCCTTGGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCT 7316  Sbjet 7317 CCGCCTCGGAAAAAGCGTCGTCCACGGTCCCCCCCTCCTGTGCCT 7316  Sbjet 7317 CCGCCTCGGAAAAAGCGTACGGTGCCTCCACCGAATCAACCCTACTGCCTTTGGCC 7376  Query 7317 CCGCCTCGGAAAAAGCGTACGGTGCCTCACCGAATCAACCCTACTACTGCCTTGGCC 7376  Query 7377 GAGCTTGCCACCAAAAGTTTTGGCAGGTCCTCACCGAATCAACCCTACTGCCTTGGCC 7376  Sbjet 7377 GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACG 7436  Query 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCACCTCCGACTTCAGGCCGACAATATG 7496  Query 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCGACTTCAGCGCGACAATATG 7496  Query 7497 TCTTCCATGCCCCCCCTTCTGGCTGCCCCCCCCGACTCCAACGTTGAGTCCTAT 7496  Sbjet 7497 TCTTCCATGCCCCCCCTTCTGGCTGCCCCCCCGACTTCAGCGACGTTGAGTCCTAT 7496  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATTCCGGATTCAGCGACGGGTCATGG 7556  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATTCCGGAATTCAGCGACGGGTCATGG 7556  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATTCCGGAACACGAAGGGGTCATGG 7556  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGCCTGTGTGCTCCAACTCTAATCC 7616  Sbjet 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGCTGTGTGCTCCAAAAAAAA	_			
Sbjet 7197 CCCGTTTGGGCGGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGAC 7256  Query 7257 TACGAACCACCTGTGGTCCATGGCTGCCGGTACCACCTCCACGGTCCCTCTGTGCCT 7316  Sbjet 7257 TACGAACCACCTGTGGTCCATGGCTGCCGGTACCACCTCCACGGTCCCTCTGTGCCT 7316  Query 7317 CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACTACTACTGCCTTGGCC 7376  Sbjet 7317 CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACTACTACTGCCTTGGCC 7376  Query 7377 GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACGTTCCGGCATTACGGGCGACAATACG 7436  Sbjet 7377 GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACG 7436  Query 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCGCACTTCCAGCGTTGAGTCCTAT 7496  Query 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGGACTCCGACGTTGAGTCCTAT 7496  Query 7497 TCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGACGTTGAGTCCTAT 7496  Query 7557 TCGACGGCCGCCCTTGGAGGGGGGACCCGGATTCCGGCTTGAGTCCTAT 7556  Query 7557 TCGACGGCCGCCCCTGGAGGGGGACCCGGATTCCGGCTCCAATGTCTTATCC 7616  Sbjet 7557 TCGACGGCCAGTAGTGGGGCCGACACGGAAGATGTCCTAATGTCTTATACC 7616  Query 7617 TGGACAGGCGCACTCGTCACCCGGGAAGAACAAAAACTGCCCATCAACGCA 7676  Sbjet 7617 TGGACAGGCGCACTCGTCACCCCGTGCGGGAAGAACAAAAACTGCCCATCAACGCA 7676  Sbjet 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCGGGAAGAACAAAAACTGCCCATCAACGCA 7676	_			
Sbjet 7197 CCCCGTTTGGGCGGCGGCCGGACTACAACCCCCCGGTTAGTAGAGACGTGGAAAAAGCCTGAC 7256  Query 7257 TACGAACCACCTGTGGTCCATGGCTGCCGGCTACCACCTCCACGGTCCCCTCTGTGCCT 7316  Sbjet 7257 TACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCT 7316  Query 7317 CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCC 7376  Sbjet 7317 CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCC 7376  Query 7377 GAGCTTGCCACCAAAAAGTTTTGGCAGCTCCTCACCGAATCAACCCTACTGCCTTGGCC 7376  Query 7377 GAGCTTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCCATTACGGGCGACAATACG 7436  Sbjet 7377 GAGCTTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACG 7436  Query 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCGACCTTGAGTCCTAT 7496  Sbjet 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCGACTCCGACGTTGAGTCCTAT 7496  Query 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCGACTCCGACGTTGAGTCCTAT 7496  Query 7497 TCTTCCATGCCCCCCCGCCCCTTCTGGCTGCCCCCCCGACTCCGACGGTCATGG 7556  Query 7557 TCGACGGCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATTCAGCGACGGTCATGG 7556  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCCTCAATGTCTTATTCC 7616  Sbjet 7617 TGGACAGGCGCCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676  Sbjet 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676	Query	7197		7256
Sbjet 7257 TACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCT 7316  Query 7317 CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCC 7376  Sbjet 7317 CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCC 7376  Query 7377 GAGCTTGCCACCAAAAGTTTTGGCAGGTCCTCACCGAATCAACCCTACCTA	Sbjct	7197		7256
Sbjet 7257 TACGAACCACCTGTGGTCCATGGCTGCCGCTACCACGGTCCCCTCCTGTGCCT 7316  Query 7317 CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACTACTGCCTTGGCC 7376  Sbjet 7317 CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACTACTGCCTTGGCC 7376  Query 7377 GAGCTTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACG 7436  Sbjet 7377 GAGCTTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACG 7436  Sbjet 7377 GAGCTTGCCACCAAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACG 7436  Query 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCGACGATCCGACGTTGAGTCCTAT 7496  Query 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCGACTCCGACGTTGAGTCCTAT 7496  Query 7497 TCTTCCATGCCCCCCCTTCTGGCTGCCCCCCCCGACTCCGACGTTGAGTCCTAT 7496  Sbjet 7497 TCTTCCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCCGACGTTGAGTCCTAT 7556  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATCCGGATTTCAGCGACGGGTCATGG 7556  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGCCTGAATGTCTTATTCC 7616  Sbjet 7617 TGGACAGGCGCACTCGTCACCCCGTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676  Sbjet 7617 TGGACAGGCGCACTCGTCACCCCGTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676	Query	7257		7316
Sbjet 7317 CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACTGCCTTGGCC 7376  Query 7377 GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACG 7436  Sbjet 7377 GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACG 7436  Query 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACGTTGAGTCCTAT 7496  Sbjet 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCCGACGTTGAGTCCTAT 7496  Query 7497 TCTTCCATGCCCCCCCTTCTGGCTGCCCCCCCGACTCCGACGTTGAGTCCTAT 7496  Sbjet 7497 TCTTCCATGCCCCCCCTTGGAGGGGGATCCGGATCTCAGCGACGGTCATGG 7556  Query 7557 TCGACGGTCAGTAGTGGGGGCGACACGGAAGATCCGGATTTCAGCGACGGTCATGG 7556  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGCTCAATGTCTTATTCC 7616  Sbjet 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGCTCAATGTCTTATACC 7616  Sbjet 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676  Sbjet 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676	Sbjct	7257		7316
Sbjet 7317 CCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTA	Query	7317		7376
Sbjet 7377 GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATG 7436  Query 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACCTCCGACGTTGAGTCCTAT 7496  Sbjet 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGcccccCCGACGTTGAGTCCTAT 7496  Query 7497 TCTTCCATGcccccctGAGGGGGGAGCCCGGACTCCGACGTTGAGTCCTAT 7496  Sbjet 7497 TCTTCCATGcccccctGAGGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGG 7556  Sbjet 7497 TCTTCCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTCAGCGACGGGTCATGG 7556  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATCTCGTGTGCTCAATGTCTTATTCC 7616  Sbjet 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATACC 7616  Sbjet 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676  Sbjet 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676	Sbjct	7317		7376
Query7437ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTAT7496Sbjct7437ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTAT7496Query7497TCTTCCATGcccccctTGGAGGGGGAGCCTGGGGATCCGGACTCCGACGGTCATGG7556Sbjct7497TCTTCCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATTCAGCGACGGGTCATGG7556Query7557TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCC7616Sbjct7557TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACC7616Query7617TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA7676Sbjct7617TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA7676	_	7377		7436
Sbjct 7437 ACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTAT 7496  Query 7497 TCTTCCATGcccccctGAGGGGGAGCCTGGGGATCTCAGCGACGGGTCATGG 7556  Sbjct 7497 TCTTCCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCTCAGCGACGGGTCATGG 7556  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCC 7616  Sbjct 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACC 7616  Query 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676  Sbjct 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676	Sbjct		GAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATG	
Query7497TCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCTCAGCGACGGGTCATGG7556Sbjct7497TCTTCCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCTCAGCGACGGGTCATGG7556Query7557TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCC7616Sbjct7557TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACC7616Query7617TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACC7616Sbjct7617TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA7676Sbjct7617TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA7676	_			
Sbjct 7497 TCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATTTCAGCGACGGGTCATGG 7556  Query 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCC 7616  Sbjct 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACC 7616  Query 7617 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACC 7616  Sbjct 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676  Sbjct 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676	_			
Query7557TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGCTGCTCAATGTCTTATTCC7616Sbjct7557TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACC7616Query7617TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA7676Sbjct7617TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA7676	_			
Sbjct 7557 TCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGCTCCAATGTCTTATACC 7616  Query 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676  Sbjct 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676	_			
Query 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676	_			
Sbjct 7617 TGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCA 7676	_			
	_			
	_			

Sbjct	7677		7736
Query	7737	TGCCAAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAG	7796
Sbjct	7737		7796
Query	7797	GACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTA	7856
Sbjct	7797		7856
Query	7857	GAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCA	7916
Sbjct	7857	GAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCA	7916
Query	7917	AAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGAC	7976
Sbjct	7917	AAAGACGTCCGTTGCCATGCCAGAAAGGCCCGTAGCCCACATCAACTCCGTGTGGAAAGAC	7976
Query	7977	CTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTC	8036
Sbjct	7977	ĊŢŢĊŢĠĠĂĀĠĂĊĀĠŢĠŢĂĀĊĀĊĊĂĂŢĀĠĀĊĀĊŢĀŢĊĀŢĠĠĊĊĀĀĠĀĀĊĠĀĠĠŢĊŢŢĊ	8036
Query	8037	TGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTG	8096
Sbjct	8037	TGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTG	8096
Query	8097	GGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCC	8156
Sbjct	8097	GGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCC	8156
Query	8157	GTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTG	8216
Sbjct	8157 8217	GTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTG CAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGAC	8216 8276
Query Sbjct	8217	CAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGAC	8276
Query	8277	TCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTG	8336
Sbjct	8277		8336
Query	8337	GACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT	8396
Sbjct	8337	GACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCT	8396
Query	8397	CTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTG	8456
Sbjct	8397	CTTACCAATTCAAGGGGGGAAAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTG	8456
Query	8457	ACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCC	8516
Sbjct	8457	acaactagctgtggtaacaccctcacttgctacatcaaggcccggcagcccgtcgagcc	8516
Query	8517	GCAGGGCTCCAGGACTGCACCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAA	8576
Sbjct	8517	ĠĊAĠĠĠĊŤĊĊĀĠĠĀĊŤĠĊĀĊĊĀŤĠĊŤĊĠŤĠŤĠĠĊĠĀĊĠĀĊŤŤĀĠŤĊĠŤŤĀŤĊŤĠŤĠĀĀ	8576
Query	8577	AGTGCGGGGGTCCAGGAGGACGCGGCGAGGCCTGAGAGCCTTCACGGAGGCTATGACCAGG	8636
Sbjct	8577	AGTGCGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTTACGGAGGCTATGACCAGG	8636
Query	8637	TACTCCGeeeeccceggggacceeeeACAACCAGAATACGACTTGGAGCTTATAACATCA	8696
Sbjct	8637	TACTCCGCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCA	8696
Query	8697	TGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACC	8756
Sbjct	8697	TGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAAAGGGTCTACTACCTTACC	8756
Query	8757 8757	CGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTC	8816 8816
Sbjct	8757	AATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTG	8816
Query	OOT	######################################	00/0

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8817
                                                   8876
Sbjct
        ATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGT
    8877
                                                   8936
Query
Sbjct
    8877
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                                                   8936
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                                                   8996
Query
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Sbjct
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Query
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         8997
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Sbjct
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Sbjct
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Sbjct
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                                                   9236
Query
         9177
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Sbjct
    9237
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                                                   9296
Query
         GACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCT
    9237
                                                   9296
Sbjct
         CATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATC
Query
    9297
                                                   9356
         CATGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATC
Sbjct
    9297
                                                   9356
         TACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC-
    9357
                                                   9415
Query
         TACCTCCTCCCAACCGTGAAGGTTGGGGTAAACACTCCGGCCTCTTAGGCCATTTCCC
    9357
                                                   9416
Sbjct
                                                   9461
    9416
         Query
                         9417
                                                   9476
Sbjct
        Query
    9462
                                                   9513
    9477
                                                   9536
Sbjct
         \verb|TTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCT|\\
    9514
                                                   9573
Query
         9537
         TTAGCCCTAGTCACGGCTAGCTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCT
                                                   9596
Sbjct
    9574
         GATACTGGCCTCTCTGCAGATCATGT
                            9599
Query
         Sbjct
    9597
         GATACTGGCCTCTCTGCAGATCATGT
                            9622
>dbj|DL487761.1| FUNCTIONAL DNA CLONE FOR HEPATITIS C VIRUS (HCV) AND USES THEREOF
Length=9416
Score = 1.688e+04 bits (9142), Expect = 0.0 Identities = 9318/9404 (99%), Gaps = 7/9404 (0%)
Strand=Plus/Plus
Query
    1
         GCCAGCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT
                                                   59
        59
Sbjct
    1
         \tt GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
    60
                                                   119
Query
         GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
                                                   119
    60
Sbjct
Query
    120
         179
         Sbjct
    120
                                                   179
         GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC
Query
    180
```

Sbjct	180	GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	239
Query	240	CGCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Sbjct	240	CGCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Query	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Sbjct	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Query	360	CCTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT	419
Sbjct	360	CCTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCGAGTTCCCGGGT	419
Query	420	GGCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTG	479
Sbjct	420	GGCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTG	479
Query	480	CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCC	539
Sbjct	480	CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGTGGTAGACGTCAGCCTATCCCC	539
Query	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTAT	599
Sbjct	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTAT	599
Query	600	GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGC	659
Sbjct	600	ggcaatgagggttgcgggtgggcggatggctcttgtctccccgtggctctcggcctagc	659
Query	660	TGGGGCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTT	719
Sbjct	660	TĠĠĠĠĊĊĊAĊAĠAĊĊĊĊĠĠĊĠŦAĠĠŦĊĠĊĠĊAAŦŦŦĠĠĠŦAAĠĠŦĊAŦĊĠAŦAĊĊĊŦŦ	719
Query	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGC	779
Sbjct	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGC	779
Query	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACA	839
Sbjct	780	GCTGCCÁGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAÁGACGGCGTGAACTATGCAÁCA	839
Query	840	GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Sbjct	840	GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Query	900	GTGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Sbjct	900	GTGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Query	960	TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	960	TGCCCTAATTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Query	1020	GTCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020	GTCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Query	1080	GCCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080	GCCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Query	1140	GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1199
Sbjct	1140	GGGAGCGCCACCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTCTT	1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258
Sbjct	1200	GTTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG	1258
Query	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Sbjct	1259	TTCTÁTCTATCCCGGCCÁTATAACGGGTCÁTCGCÁTGGCÁTG	1318
Query	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378

Sbjct	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Query	1379	CATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379	CATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Query	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Sbjct	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Query	1499	CGTCACCGGGGAAATGCCGGCCGCACCACGGCTTGGTCTTGTTCCTTACACCAGG	1558
Sbjct	1499	CGTCACCGGGGAAGTGCCGGCCACACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Query	1559	CGCCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Sbjct	1559	CGCCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	cttgaactgcaacgatagccttaccaccggctggttagcagggctcttctatcgccacaa	1678
Query	1679	ATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Sbjct	1679	attcaactcttcaggctgtcctgagaggttggccagctgccgacgccttaccgattttgc	1738
Query	1739	CCAGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTG	1798
Sbjct	1739	CCAGGGCTGGGGTCCCATCAGTTATGCCAACGGAAGCGCCCTTGACGAACGCCCCTACTG	1798
Query	1799	CTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799	TTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCTTGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGTCCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCT	2338
Sbjct	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Query	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTC	2398
Query	2399	CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399	CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGG	2458
Query	2459	GTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCT	2518

Sbjct	2459	GTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCT	2518
Query	2519	TGCAGACGCGCGCTCTGCTCGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519	TGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639	GTCCTTCCTCGTGTTCTTCTGCTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2698
Sbjct	2639	GTCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2698
Query	2699	GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGTTGCCTCAGCG	2758
Sbjct	2699	GGTCTACGCCTTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCG	2758
Query	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Sbjct	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Query	2819	AATGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819	AATGGCGCTGACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879	TCAGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTGGGGGGCTCAACGT	2938
Sbjct	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTCCCCCCCTCAACGT	2938
Query	2939	CCgggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939	ccggggggggggcgcgatgccgtcatcttactcatgtgtgttgtacacccgactctggtatt	2998
Query	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	tctggccgtggctgtggaaccagtcgtcttctcccgaatggagaccaagctcatcacgtg	3298
Query	3299	GGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCAGGAGATACTGCTTGGACCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658

Sbjct	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Query	3659	AGACCTTGTGGGCCTGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCCTGCCCCCCCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTTACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACCTA	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGACCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	CCACCTGCATGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	AGGAGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4439	TCTGTCCACCACCGGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Query	4498	AGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Sbjct	4498	AGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Query	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4617
Sbjct	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	4617
Query	4618	TCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Sbjct	4618	TCCCGACCAACGGCGATGTTGTCGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Query	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC	4737
Sbjct	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC	4737
Query	4738	TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797

Sbjct	4738		4797
Query	4798	AACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGG	4857
Sbjct	4798	AGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGG	4857
Query	4858	AGCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Sbjct	4858	AGCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Query	4918	CTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Sbjct	4918	CTTGGTATGAGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Query	4978	CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Sbjct	4978	CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Query	5038	CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC	5097
Sbjct	5038	CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC	5097
Query	5098	TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC	5157
Sbjct	5098	tiggtagcgtaccaagccaccgtgtgcgctagggctcaagccccttcccccatcgtggacc	5157
Query	5158	AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
Sbjct	5158	AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
Query	5218	ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA	5277
Sbjct	5218	ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA	5277
Query	5278	TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Sbjct	5278	rgacargcargregacciaccregaggregreacciacciacciacciacciacciacciacciacciacc	5337
Query	5338	TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5397
Sbjct	5338	TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5397
Query	5398	TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG	5457
Sbjct	5398	TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	atgagatggaagagtgctctcagcacttaccgtacatcgagcaagggatgatgctcgctg	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AĞCAĞTTCAAĞCAĞAAĞĞCCCTCĞĞCCTCCTĞCAĞACCĞCĞTCCCĞCCATĞCAĞAĞĞTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTCTGGGCGAAGCACATGT	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAATTTCATCAGTGGGATACAATATTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Query	5758	CCCTCCTCTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGGGTGGGTGCCCAGCTCGCCGCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCAT	5937

Sbjct	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938		5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGCTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
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Sbjct	6478	TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
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Sbjct	6538	ccacgggcccctgtactccccttcctgcgccgaactataagttcgcgctgtggagggtgt	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Sbjct	6598	ctgcagaggaatacgtggagataaggcgggtgggggacttccactacgtatcgggtatga	6657
Query	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG	6717
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Sbjct	6778	CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC	6837
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Sbjct	6838	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6897
Query	6898	CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Sbjct	6898	CCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	6957
Query	6958	TGTCCGCTCCATCTCCAAGGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGC	7017
Sbjct	6958	TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Query	7018	TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077

Sbjct	7018	TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Query	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Sbjct	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Query	7138	GGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGC	7197
Sbjct	7138	GGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGC	7197
Query	7198	CCGTCTGGGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Sbjct	7198	CCGTTTGGGCGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Query	7258	ACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTC	7317
Sbjct	7258	ACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTC	7317
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Sbjct	7438	CAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATT	7497
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Sbjct	7678	TGAGCAACTCGTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCTT	7737
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Sbjct	7738	ĠĊĊĂĂĂĠĠĊĀĠĂĀĠĂĀĀĠŤĊĀĊĀŤŤŤĠĀĊĀĠĀĊŤĠĊĀĀĠŤŤĊŤĠĠĀĊĀĠĊĊĀŤŤĀĊĊĀĠĠ	7797
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Sbjct	7858	AĞĞAAĞCTTĞCAĞCCTĞACĞCCCCACATTCAĞCCAAATCCAAĞTTTĞĞCTATĞĞĞĞCAA	7917
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Sbjct	7978	TTCTGGAAGACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTCT	8037
Query	8038	GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGG	8097
Sbjct	8038	ĠĊĠŦŦĊĂĠĊĊŦĠĂĠĂĀĠĠĠĠĠĠŦĊĠŦĀĀĠĊĊĀĠĊŦĊĠŦĊŦĊĀŦĊĠŦĠŦŦĊĊĊĊĠĂĊĊŦĠĠ	8097
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Query	8158	TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGC	8217

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Query	8458	CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCG	8517
Sbjct	8458	CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCCGTCGAGCCG	8517
Query	8518	CAGGGCTCCAGGACTGCACCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Sbjct	8518	cagggctccaggactgcaccatgctcgtgtgtggcgacgacttagtcgttatctgtgaaa	8577
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Sbjct	8578	GTGCGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTTACGGAGGCTATGACCAGGT	8637
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Sbjct	8698	GCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAAAAGGGTCTACTACCTTACCC	8757
Query	8758	GTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCA	8817
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Query Sbjct	8878 8878	TGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTG	8937
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Query	1020	GTCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020		1079
Query	1080	GCCACCAGGGACGCCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
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Query	1140	GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1199
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Query	1200	GTTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGCCAA-GACTGCAATTG	1258
Sbjct	1200	gttggtcaactgtttaccttctcccaggcgccactggacgacgacgcaaag-ctgcaattg	1258
Query	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Sbjct	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Query	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Sbjct	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Query	1379	CATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379	CATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Query	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Sbjct	1439 1499	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498 1558
Query Sbjct	1499	CGTCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
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Sbjct	1559		1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619		1678
Query	1679	ATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
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Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1918
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Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGC	2038
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Sbjct	2039	GCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
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Query	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
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Sbjct	2939	ccgggggggggggatgccgtcatcttactcatgtgtgtacacccgactctggtatt	2998
Query	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999	tgacatcaccaaactactcctggccatcttcggacccctttggattcttcaagccagttt	3058
Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059	gcttaaagtcccctacttcgtgcgcgttcaaggccttctccggatctgcgcgctagcgcg	3118
Query	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119	gaagatagccggaggtcattacgtgcaaatggccatcatcaagttgggggcgcttactgg	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238

Sbjct	3179		3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239		3298
Query	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299		3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359		3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479		3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTTACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACCTA	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGACCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	CCACCTGCATGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACAT	4318
Sbjct	4259	AGGAGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378

Query         4379         COCCACTGCTACCCTCCGGGCTCCGTCACTGTTCCCATCCTACACTCGAGGGGGTTCC         438           Sbjet         4379         COCCACTGCTACCCCTCGGGGTCCGTCACTGTTCCCCTCCAGGGGGTGTCC         438           Query         4439         TCTGTCCACCACCGGGGGAGGATTCCCCTTTT-TACGGCAAGGGTTATCCCCCTCGAGGTGATCC         497           Sbjet         4398         CTGTGCCACCACCGGGAGGATTCCCCTTTT-TACGGCAAGGGCTATTCCCCCCTCGAGGTGATCA         497           Sbjet         4398         AGGGGGGAAAGACTCTCTTTCTTCTCACTCATCAAGAAGAAGGTGAGGAGGTGCCCGCGGA         457           Sbjet         4588         AGGGGGGAAAGACATCTATTCTTCTTCTACTCACTCAAGAACAAGGGTGTCCCCGCGA         457           Cuery         4518         AGCGGGCAAGAGGGCGATGTTCTGTCTGTCTGTACCACGGGTTTGACCTGTTTACC         467           Sbjet         4618         TCCCCACCAACGGGGGATGTTCTGTGTGTGTGACCGATTGTCATCACTGGTTTACC         473           Sbjet         4618         CCCCACCAACGGGGGATGTTCTGTGTGTGTGTGACCGATTGCTGACGAGTTTCACC         473           Sbjet         4678         GCCACTTCGCTTTGTACATTGACATCACACTGTTGTACATGCTTTACACTTCAGGCATTCAGCATTTCACC         473           Sbjet         4738         TTGCCCCTACCTTTTACCATTGAGACACACGGCTTCCCCCAGGATGCTGCAGGAGCT         473           Sbjet         4738         ACGCCCCTCCCCCCACCACGACGACTGCCACAGGACCACCACCACCACCACCACCACCACCACCAC	Sbjct	4319		4378
Bejtet         4379         GEOCCACTECTACCOCCGGGGTTCCCCTTCTACCGTCCTCCTCCAGAGGTTGCC         4439           Overy         4439         TCTGTCCACCACCGGGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA         4497           Spict         4439         TCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA         4497           Cevery         4498         AGGGGGAGAGCATCTACTCTTCCTGTCTCAAAGGAAGATGCGACCAGGCTGCGCCGGG         4557           Spjet         4498         AGGGGGGAAGCATCTACTCTTCTGTTCAAAGGAAGATGCGACCAGGCTCGCCCGGG         4617           Spjet         4558         AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCCCGGGTTTGACGTGTCTTACC         4617           Ouery         4618         TCCCGACCAGCGCCGATTGTGTCGTCGTCGTCGTCTACCCCGGACTTTACCGTGTTTACC         4677           Spjet         4618         TCCCGACCAGCGCCCCAACGCCCGATGTTGTCGTCGTCTTGTGACCCATGTGACTGGATTCAGCC         4737           Spjet         4678         CCCGACCAGCGCCCCAACGCCCCAACGCCCCCCAACGCCCCCC	Query	4379		4438
Sbjet         4439         TCTGTCACCACCAGGAGGATCCC-TITCTACGGCAAGGCTATCCCCTCGAGGTGTCTCAC         4997           Query         4498         AGGGGGGAAGCATCTCATCTTCTGCCACTCAAGAAGAAGATCGCACCGCGCAC         4557           Sbjet         4498         AGGGGGGAAGCATCTCATCTTCTGCCACTCAAGAAGAAGATCGCACCGCCCCCCCC	Sbjct	4379		4438
Sbjet         4439         TOFGTCCACCACCGGAGGAGTCCC-TTTCTAGGGCAAGGCTATCCCCCTCCAGGAGTGATCA         4497           Query         4498         AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACCGCGCAA         4557           Sbjet         4498         AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCACCTGCCCGCCAA         4557           Query         4558         AGCTGGTGCCATTGGGCCATTGGGCCTGGCCTATGACGGCGTCTTGACGTGGCTGCTCAA         4617           Query         4618         TCCCGACCACCGCGCGATGATTGCCGTGGCCACTGGGCCATGATGCGCGATGCTTCAAGCTGGTTTTACCG         4677           Sbjet         4618         TCCCGACCACCGCGCGATGTTGTCGTCGTGCGACCGATGCTCTCATGACTGGCTTTACCG         4677           Sbjet         4618         TCCCGACCACCGCGCGATGTTGTCGTCGTGTGCACCCATGGCTCATGACTGGGTTTTCACGC         4737           Sbjet         4678         GCGACTTCGACTCTGTGATGACACACCTGTGCACCACGGTGGATTCCAGCACTTTTCACC         4737           Query         4738         TIGACCCTACCTTTACCATTGAGACAACCACGCCCCCCCAGGATGCTGTCCACGAGCTC         4797           Sbjet         4738         TIGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCCACGAGGGG         4857           Query         4758         AACGCCCCCTCCGCAGCACGCAGGAGCAGGACTGACAGCTCACCAGGAGCTGCACAGGGG         4857           Query         4858         AGCGCCCCTCCGGCATGTTCGACTGTCCTCTTGTGAGTTGAGGCTACAGGCCTTACAGGACTTACAGCACCACCTGAGACCACCACTGTGAGACCACCTGTGAGACCACCACCACCACCACCACCACCACCACCACCACCA	Query	4439		4497
Sbjet         4498         AGGGGGGAAGACATCATCATCTTCTTCATCATCATAGAGAAGTGGGGGGGCTCTGACGGGGCTCTGACGGGGGCTCTGACGGGGGCTCTGACGGGGGCTGCTGACGGGGGCTGCTGACGGGGGCTGCTGACGGGGGGGG	Sbjct	4439		4497
Sbjet         4498         AGGGGGAAGACATCTAATCTTCTCTCTAAACAAGAAGAAGACCACCACCACCCCCCACA         4557           Query         4558         AGCTGGCTCGCATTGGCATCAATCCCTGGGCTACTAACCCCGGATCTTGACCTTCTCTCACACACA	Query	4498		4557
Sbjet         4558         AGGTGGGCATTGGGCATCATGCCGTGGGCATTCAGCGTGGGCTTACCGGTGGGTCTACCGGGGGGGG	Sbjct	4498		4557
Sbjet         4558         AGCTGGTCGCATTGGGCATCAATGCCCTGGCCTTACCACCGCGGATTGACTGCTTGCT	Query	4558		4617
Sbjet         4618         TCCGGACCAACGGGATGTTGTCGTCCGTGTGTCAGCGATGTGTTTACCG         4677           Query         4678         GCGACTTCGACTCTGTGTAGACTGCAACACGGTGTTCAGACTGGATTTCAGCC         4737           Sbjet         4678         GCGACTTCGACTCTGTGTATAGACTGCAACACGTGTGTCACACACA	Sbjct	4558		4617
Sbjet         4618         TCCCGACCACGGCGATGTTGTCCTCGTGTGACGGATGCTCTCATGACTGGGCTTTTACCC         4777           Query         4678         GCGACTTCGACTCTGTGATAGACTGCAACACGTGGTTCACACACA	Query	4618		4677
Sbjet         4678         GCGCATTCGACTCTGGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTCAGCC         4737           Query         4738         TTGACCCTACCTTTACCATTGAGACAACACGTGTGTCACTCAGACAGTTCCAGGACTC         4797           Sbjet         4738         TTGACCCTACCTTTACCATTGAGACAACACGCTCCCCCAGGATGCTTCCCAGGACTC         4797           Sbjet         4738         ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCTCCCCCCAGGATGCTCCAGGAGG         4857           Query         4798         AACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGG         4857           Query         4858         AGCGCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACACCGGGGCTGTG         4917           Sbjet         4858         AGCGCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACACGGGCTTC         4977           Query         4918         CTTGGTATGAGCTCACGCCCCCCCGAGACTACAGTTAGAGCCGGGCTACATGAACACCC         4977           Sbjet         4918         CTTGGTATGAGCTCAGGCCCCCCCGAGACTACAGTTAGGAGCCGTACTAGACCCAGGCCTCATACTAGGACCACCCT         4977           Query         4918         CTTGGTATGAGCTCATGCCCGCCGAGACTACAGTTTGAGTTTGGAGGCGGCTCTTTACGGGCCTCA         5037           Sbjet         4978         CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGAGGCGGCTCTTTACGGGCCTA         5037           Query         5038         CTCATATAGATGCCCACTTTTTATCCCAGACAAAGAGGAGGGGAGAACTTTCCTTACC         5097           Sbjet         5038         CTCATATAGA	Sbjct	4618		4677
Sbjet         4678         GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC         4737           Query         4738         TTGACCCTACCTTTACCATTGAGACAACCCAGGTCCCCCAGGATGCTGTCTCCAGGACTC         4797           Sbjet         4738         TTGACCCTACCTTTACCATTGAGACAACCCAGGTCCCCCAGGATGCTGTCCCAGGACTC         4797           Query         4798         AACGCCGGGGCAGGACTGGCAGGGGGGAAGCCAGCATCTATAGAGTTTTGTGCACCGGGGG         4857           Sbjet         4798         AACGCCGGGGCAGGACTGCCAGGGGGGAAGCCAGCATCTACAGATTTTGTGCACCGGGGG         4857           Query         4858         AGCGCCCTCCGGCATGTTCGACTCGTCCTCTCTGTGAGTGCTATGACCGCGGCTGT         4917           Sbjet         4918         CTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGACGCGTACATGACCC         4977           Sbjet         4918         CTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC         4977           Query         4918         CTTGGTATGAGCTCAGGCCCGCGAGACTACAGTTAGGCTACGAGCGTACTAGACCC         4977           Query         4978         CGGGGCTTCCCGTGTGCCAGGACCATCTTGATTTTGGGGGGGG	Query	4678		4737
Sbjet 4738 TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTC 4797 Query 4798 AACGCCGGGGCAGGACTGCAGGAGGAGAGCCAGGCATCTATAGATTTGTGGCACCGGGGG 4857 Sbjet 4798 AGCGCCGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGG 4857 Query 4858 AGCGCCCCTCCGGCATGTTCGACTCGCTCTCTGTGAGTGCTATAGACGGGGCTGT 4917 Sbjet 4858 AGCGCCCCTCCGGCATGTTCGACTCGTCCTCTCTGTGAGTGCTATGACGCGGGCGTG 4917 Query 4918 CTTGGTATGAGCCCCGCCGCAGACTACAGTTAGAGCTACAGACACCC 4977 Sbjet 4918 CTTGGTATGAGCCCACCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC 4977 Query 4978 CGGGGCTTCCCGTGTGCCAGGACTACAGTTAGGCTACGAGCGTACATGAACACC 4977 Query 4978 CGGGGCTTCCCGTGTGCCAGGACTACAGTTAGGCTACGAGCGTACATGAACACC 4977 Query 5038 CTCATATAGATGCCCACTTTTTATCCCAGACACAAGCGGAGCACTACTTACGGCCTCA 5037 Query 5038 CCCATATAGATGCCCACTTTTATCCCAGACACAAGCAGGAGGAGACAACTTTCCTTAC 5097 Query 5098 TGGTAGCAGACCACTTTTATCCCAGACAAAGCAGGAGGAGACAACTTTCCTTAC 5097 Query 5098 TGGTAGCGAAGCCACTTTTATCCCAGACAAAGCAGGAGGAGACAACTTTCCTTAC 5097 Query 5158 AGATGTGGAAGCCACCTTTTATCCCAGACAAAGCAGGAGGAGAAACTTTCCTTAC 5097 Query 5158 AGATGTGGAAGCACACTTTTATCCCAGACAAAGCACGAGGAGAAACCCCTCCCCCATCGTGGGACC 5157 Query 5158 AGATGTGGAAGCACACTTTCATCCAGACCACCCTCCCCCATCGTGGGACC 5157 Query 5158 AGATGTGGAAGCACACTTTTCATCCAGACCACCCTCCCCCATCGTGGGACC 5157 Query 5218 ACAGACTGGGCGTGTTCAGAATGAAGTCACCCTCCCCATCGTGGGACC 5277 Sbjet 5218 ACAGACTGGGCGCTGTTCAGAATGAAGCCACCCTCCATGGGCCAACACCCCTGCTAT 5217 Query 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAAAACACACC Query 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAAAACACCC S277 Query 5218 ACAGACTGGGCGCTGTTCAGAATGAAGAGCACCCTGACGGCACCCAATCACCAAAAACACCC S277 Query 5218 TGCAATGCATGCGCGCACCTGAAGGACCACCCTGGGGCC 5337 Query 5238 TCCTGGCTGGCGCGACCTGGAGGTCGTCAGAGCACCCTTGTGGGGCG 5337 Query 5398 TCCTGGCTGGCCGGAAGCCCCTGGAGGTCTCTAACAGGGAGCACCCTGGTGGCCAAAAACACCCCTGGGGGCG 5337 Query 5398 TCCTGGCCGGGAAGCCCGGAACACCGGAGGTTCCTAACAGGGAGGTCTCTAACAGGGAGGTCTCTAACAGGAGAGCACCTGGGGGCG 5337 Query 5398 TCCTGGCCGGGAGCCTGGAGGCCACCGAATCACCAAATAACTAA 5277	Sbjct	4678		4737
Sbjet         4738         TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC         4797           Query         4798         AACGCCGGGGCAGGATGGCAGGGGGGAAGCCAGCATCTATAGATTTGTGGCACCGGGGG         4857           Sbjet         4798         AGCGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGG         4857           Query         4858         AGCGCCCCTCCGGCATGTCGACTCGTCCTCTGTAGATGCTATGAGCGGGGCTGT         4917           Sbjet         4858         AGCGCCCCTCCGGCATGTCGACTCGTCCTCTGTGAGTGCTATGACGCGGGGCTGT         4917           Query         4918         CTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC         4977           Sbjet         4918         CTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC         4977           Query         4978         CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGCGTTACATGAACACCC         4977           Query         4978         CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGAGGCGCTCTTTACCGGCCTCA         5037           Sbjet         4978         CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGAGGCGCTCTTTACCGGCCTCA         5037           Query         5038         CTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGGGGGGAGAACTTTCCTTACC         5097           Query         5098         TGGTAGCGTACCAAGCCACCGTGTGCCAGGGCCTCAAGGCCCCCCACTCGTGGGACC         5157           Sbjet         5158         AGATGTGGAAGTGTTTGATCGCCTTAAACCCAC	Query	4738		4797
Sbjet 4798 AGCGCCGGGGCAGGACCGCGGGGAGCCATCTACAGATTTGTGGCACCGGGGG 4857  Query 4858 AGCGCCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACGGGGCTGTG 4917  Sbjet 4858 AGCGCCCCTCCGGCATGTTCGACTCGTCCTCTCTGTGAGTGCTATGACGCGGGCTGTG 4917  Query 4918 CTTGGTATGAGCTCAGCCCGCGAGACTACAGATTAGACAGCCGGGCTGTG 4917  Sbjet 4918 CTTGGTATGAGCTCAGCCCGGCAGACTACAGTTAGGCTACGAGCGTACATGAACACC 4977  Query 4978 CGGGGCTTCCCGTGTGCCAGGACTACAGTTAGGCTACGAGCGTACATGAACACC 4977  Sbjet 4978 CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGGCTACATGAACACC 4977  Query 5038 CTCATATAGATGCCCACGTATGACTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA 5037  Query 5038 CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097  Sbjet 5038 CCCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097  Query 5098 TGGTAGCGTACCAAGCCACCTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097  Query 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCACAACACCACGTGCGGGACC 5157  Query 5158 AGATGTGGAGGTTTGATCCAGCTAAGCCACCCTCCCCCATGGTGGGACC 5157  Query 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCCCCATGGTGGGACC 5157  Query 5218 ACAGACTGGAAGTTTGATCCGCCTTAAACCCACCCTCCATGGGGCACACCCTTCTTT 5217  Query 5218 ACAGACTGGGAGTTTGATCCAGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217  Query 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTACAAGCCACCCTGCTAT 5217  Query 5218 ACAGACTGGGCCGTGTTCAGAATGAAGTCACCCTACAAGCACACCCTGCTAT 5217  Query 5218 ACAGACTGGGCCGTGTTCAGAATGAAGTCACCCTACACACAC	Sbjct	4738	TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTC	4797
Query4858AGCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG HILLINGTHINGTHINGTHINGTHINGT AGCGCCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG 49174917Query4918CTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC 49774978Sbjet4918CTTGGTATGAGCTCACGCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACC 49774977Query4978CGGGGCTTCCCGTGTGCCAGGACCACTTTGAATTTTGGGAGGGCGTACATGAACACC 49785037Query5038CTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACC 111111111111111111111111111111111111	Query	4798		
Sbjet 4858 AGCGCCCCTCCGGCATGTTCGACTCGTCCTTGTGAGTGCACGGGGCTGTG 4917  Query 4918 CTTGGTATGAGCTCACGCCCGCAGACTACAGTTAGGCTACGAGCACACACA	Sbjct	4798	AGCGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGG	
Query4918CTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC4977Sbjet4918CTTGGTATGAGCTCATGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC4977Query4978CGGGGCTTCCCGTGTGCCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA5037Sbjet4978CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA5037Query5038CTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC5097Sbjet5038CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC5097Query5098TGGTAGCGTACCAAGCCACCTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC5097Sbjet5098TGGTAGCGTACCAAGCCACCGTGTGCGCTAAGGCCCACCCCCCCC	Query	4858		
Sbjet 4918 CTTGGTATGAGCTCATGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC 4977  Query 4978 CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA 5037  Query 5038 CTCATATAGATGCCCACCTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097  Sbjet 5038 CCCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097  Query 5098 TGGTAGCGTACCAAGCCACCTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097  Query 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCTAAGGCCCCCCCC	_			
Query4978CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA Sbjet5037Sbjet4978CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA5037Query5038CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACC Sbjet5097Sbjet5038CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGGTGGGGAGAACTTTCCTTACC 50975097Query5098TGGTAGCGTACCAAGCCACGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC 111111111111111111111111111111111111	_			
Sbjet 4978 CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGAGGGCGCTCTACGGGCCTCA 5037  Query 5038 CTCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGGAGAACTTTCCTTACC 5097  Sbjet 5038 CCCATATAGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC 5097  Query 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC 5157  Sbjet 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC 5157  Query 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCCCCATCGTGGGACC 5157  Sbjet 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATCGTGGGACC 5157  Query 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217  Sbjet 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217  Query 5218 ACAGACTGGGCGTGTTCAGAATGAAGTCACCCTTGACGCAACAACCCCTGCTAT 5217  Sbjet 5218 ACAGACTGGGCGTGTTCAGAATGAAGTCACCCTTGACGCAACCACACAATACACCA  Query 5278 TGACATGCAGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA 5277  Query 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCCAATCACCAAATACATCA 5277  Sbjet 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCTGGTGGCGCG 5337  Sbjet 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCTGGTGGCGCGG 5337  Sbjet 5338 TCCTGGCTGTCTGGCCGCGCTATTGCCTGTCAACAGGCTGCTCGTTGGCGGCG 5337  Query 5398 TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCG 5457  Sbjet 5398 TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCG 5457  Sbjet 5398 TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTTACCAGGAGTTCG 5457	_			
Query5038CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC5097Sbjct5038CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC5097Query5098TGGTAGCGTACCAAGCCACGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC5157Sbjct5098TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC5157Sbjct5098TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC5157Query5158AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT5217Sbjct5158AGATGTGGAAGTGTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT5217Query5218ACAGACTGGGCGGTTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA5277Sbjct5218ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA5277Query5278TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCGAATCACCAAATACATCA5277Sbjct5278TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG5337Query5338TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA5397Sbjct5338TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA5397Query5398TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA5457Sbjct5398TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG5457Sbjct5398TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG5457	_			
Sbjet 5038 CCCATATAGATGCCACTTTCTATCCCAGACAAAGCAGAGTGGGAGAACTTTCCTTACC 5097  Query 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC 5157  Sbjet 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC 5157  Query 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATCGTGGGACC 5157  Sbjet 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217  Sbjet 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217  Query 5218 ACAGACTGGGCGGCTGTTCAGAATGAAGTCACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217  Sbjet 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAACACCCCTGCTAT 5277  Query 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCAATCACCAAATACATCA 5277  Query 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCCAATCACCAAATACATCA 5277  Query 5338 TCCTGGCTGCTCTGGCCGGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG 5337  Query 5338 TCCTGGCTGCTCTGGCCGGTATTGCCTGTCAACAGGCTGCGTGGTCATTGGCGGCAGGA 5397  Query 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCTCATAGTGGGCAGGA 5397  Query 5398 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCTGTGGCTGGC	_			
Query5098TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	_			
Sbjet 5098 TGGTAGCGTACCAAGCCACCGTGTGCGCTAAGCCCCTCCCCCATCGTGGGACC 5157  Query 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217  Sbjet 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217  Query 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGCATGGGCCAACACCCCTGCTAT 5217  Sbjet 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA 5277  Sbjet 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA 5277  Query 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGTGCTCGTTGGCGGCG 5337  Sbjet 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG 5337  Query 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCTGTGTCATAGTGGGCAGGA 5397  Sbjet 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCTGTGTCATAGTGGGCAGGA 5397  Query 5398 TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCG 5457  Sbjet 5398 TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCG 5457	_			
Query5158AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT JILLING JILLING Sbjct5217Sbjct5158AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING JILLING <br< td=""><td>_</td><td></td><td></td><td></td></br<>	_			
Sbjet 5158 AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT 5217  Query 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA 5277  Sbjet 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA 5277  Sbjet 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA 5277  Query 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG 5337  Sbjet 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG 5337  Query 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA 5397  Sbjet 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA 5397  Query 5398 TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGTTCTCTACCAGGAGTTCG 5457  Sbjet 5398 TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG 5457	_			
Query5218ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA5277Sbjct5218ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA5277Query5278TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG5337Sbjct5278TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG5337Query5338TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA5397Sbjct5338TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA5397Query5398TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG5457Sbjct5398TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG5457	_			
Sbjet 5218 ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA 5277  Query 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG 5337  Sbjet 5278 TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG 5337  Query 5338 TCCTGGCTGTCTGGCCGACCTGGAGGTCGTCAACAGGCTGCTCGTTGGCGGCG 5337  Sbjet 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA 5397  Sbjet 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA 5397  Query 5398 TCGTCTTGTCCGGGAAGCCGCCAATTATACCTGACAGGAGGTTCTTACCAGGAGTTCG 5457  Sbjet 5398 TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTTACCAGGAGTTCG 5457	_			
Query5278TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG5337Sbjct5278TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG5337Query5338TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA5397Sbjct5338TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA5397Query5398TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA5457Sbjct5398TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG5457	_			
Sbjet 5278 TGACATGCAGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG 5337  Query 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCTGGTCATAGTGGGCAGGA 5397  Sbjet 5338 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA 5397  Query 5398 TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA 5397  Sbjet 5398 TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCG 5457  Sbjet 5398 TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCG 5457			TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Query5338TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA5397Sbjct5338TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA5397Query5398TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTTACCAGGAGTTCG5457Sbjct5398TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTTACCAGGAGTTCG5457	_	5278		
Sbjct 5338 TCCTGGCTGCTCTGGCCGCTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA 5397  Query 5398 TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCG 5457  Sbjct 5398 TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCG 5457	_		TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	
Query 5398 TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG 5457	_	5338		5397
Sbjct 5398 TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCG 5457	_	5398		5457
Query 5458 ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG 5517	Sbjct	5398		5457
	Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517

Sbict	5458		5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518		5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578		5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638		5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTCAACATATTGGGGGGGTGGCTGGCCCAGCTCGCCGCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6177
Query	6178 6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237 6237
Sbjct Query	6238	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCT CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGIGIACCACICCAIGCICCGGIICCIGGCIAAGGGACAICIGGGACIGGAIAIGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Sbjct	6298		6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Sbjct	6358		6417
Query	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418		6477
Query	6478	TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Sbjct	6478		6537
Query	6538	CCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGT	6597
Sbjct	6538	CCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGT	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657

Sbjct	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Query	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG	6717
Sbjct	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG	6717
Query	6718	ACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Sbjct	6718	ACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Query	6778	CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC	6837
Sbjct	6778	CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC	6837
Query	6838	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6897
Sbjct	6838	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6897
Query	6898	CCGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Sbjct	6898	CCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	6957
Query	6958	TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Sbjct	6958	TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Query	7018	TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Sbjct	7018	TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Query	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Sbjct	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Query	7138	GGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGC	7197
Sbjct	7138	gggaggtetecgtaceegeagaaattetgeggaagteteggagattegeeeggeeetge	7197
Query	7198	CCGTCTGGGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Sbjct	7198	CCGTTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAAGCCTGACT	7257
Query	7258	ACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTC	7317
Sbjct	7258	ACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCGCTCCCCCTCCTGTGCCTC	7317
Query	7318	CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCG	7377
Sbjct	7318	CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACTGCCTTGGCCG	7377
Query	7378	AGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGA	7437
Sbjct	7378	AGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGA	7437
Query	7438	CAACATCCTCTGAGCCCGCCCCTTCTGGCTGcccccaGACTCCGACGTTGAGTCCTATT	7497
Sbjct	7438	CAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATT	7497
Query	7498	CTTCCATGccccccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGT	7557
Sbjct	7498	CTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTCAGCGACGGGTCATGGT	7557
Query	7558	CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCT	7617
Sbjct	7558	CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATACCT	7617
Query	7618	GGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCAC	7677
Sbjct	7618	ggacaggcgcactcgtcaccccgtgcgctgcggaagaacaaaaactgcccatcaacgcac	7677
Query	7678	TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTT	7737
Sbjct	7678	TGAGCAACTCGTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCTT	7737
Query	7738	GCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797

Sbjct	7738	GCCAAAGGCAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
Query	7798	ACGTGCTCAAGGAGGTCAAAGCGGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
Sbjct	7798	ACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
Query	7858	AGGAAGCTTGCAGCCTGACGCCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
Sbjct	7858	AGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
Query	7918	AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACC	7977
Sbjct	7918	AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACC	7977
Query	7978	TTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCT	8037
Sbjct	7978	TTCTGGAAGACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTCT	8037
Query	8038	GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGG	8097
Sbjct	8038	GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGG	8097
Query	8098	GCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCG	8157
Sbjct	8098	GCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCG	8157
Query	8158	TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGC	8217
Sbjct	8158	TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGC	8217
Query	8218	AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACT	8277
Sbjct	8218	AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGGTTCCCGTATGATACCCGCTGTTTTGACT	8277
Query	8278	CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG	8337
Sbjct	8278	ccacagicactgagagcgacatccgtacggaggaggcaatttaccaatgitgtgacctgg	8337
Query	8338	ACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC	8397
Sbjct	8338	acccccaagcccgcgtggccatcaagtccctcactgagaggctttatgttgggggccctc	8397
Query	8398	TTACCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGA	8457
Sbjct	8398	TTACCAATTCAAGGGGGGAAAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGA	8457
Query	8458	CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCG	8517
Sbjct	8458	CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCCGTCGAGCCG	8517
Query	8518	CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Sbjct	8518	CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Query	8578	GTGCGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGAGGCTATGACCAGGT	8637
Sbjct	8578	ĠŦĠĊĠĠĠĠŦĊĊĀĠĀĠĠĊĠĠĊĠĠĊĠĀĠĊĊŦĠĀĠĀĠĊĊŦŦĀĊĠĠĀĠĠĊŦĀŦĠĀĊĊĀĠĠŦ	8637
Query	8638	ACTCCGcccccccggggsccccccACAACCAGAATACGACTTGGAGCTTATAACATCAT	8697
Sbjct	8638	actccgccccccggggacccccacaaccagaatacgacttggagcttataacatcat	8697
Query	8698	GCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCC	8757
Sbjct	8698	gctcctccaacgtgtcagtcgcccacgacggcgctggaaaaagggtctactaccttaccc	8757
Query	8758	GTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCA	8817
Sbjct	8758	GTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCA	8817
Query	8818	ATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGA	8877
Sbjct	8818	ATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGA	8877
Query	8878	TGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTG	8937

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8878
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Sbjct
         AGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC
Query
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                                                     9057
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                                                     9177
Query
         9118
                                                     9177
Sbjct
     9178
         TCAACTGGGCAGTAAGAACAAAGCTCAAACTCCAATAGCGGCCGCTGGCCGGCTGG
                                                     9237
Query
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Sbjct
    9238
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                                                     9297
Query
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    9238
                                                     9297
Sbjct
Query
     9298
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                                                     9357
         9298
                                                     9357
Sbjct
Query
     9358
         ACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCC-GGCC
                                         9400
         ACCTCCTCCCCAACCGGTGAAGATTGGGCTAACCACTCCAGGCC
Sbjct
    9358
                                         9401
Length=9416
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>dbj|BD069999.1| Functional DNA clone for hepatitis C virus (HCV) and uses thereof

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Score = 1.688e+04 bits (9142), Expect = 0.0 Identities = 9318/9404 (99%), Gaps = 7/9404 (0%)
Strand=Plus/Plus
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Query	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT	59
Sbjct	1	GCCAGCCCCTGATGGGGGCGACACTCCACCAT-AGATCACTCCCCTGTGAGGAACTACT	59
Query	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	119
Sbjct	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	119
Query	120	occoorTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Sbjct	120	CCCCCCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Query	180	GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTTGGGCGTGCCCC	239
Sbjct	180	GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	239
Query	240	CGCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Sbjct	240	CGCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Query	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Sbjct	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Query	360	CCTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT	419
Sbjct	360	CCTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCGAGTTCCCGGGT	419
Query	420	GGCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTG	479
Sbjct	420	GGCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTG	479
Query	480	CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCC	539

Sbjct	480	CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGTGGTAGACGTCAGCCTATCCCC	539
Query	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTAT	599
Sbjct	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTAT	599
Query	600	GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGC	659
Sbjct	600	GGCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGC	659
Query	660	TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTT	719
Sbjct	660	TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTT	719
Query	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGC	779
Sbjct	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGC	779
Query	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACA	839
Sbjct	780	gCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACA	839
Query	840	GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Sbjct	840	gggaaccttcctggttgctctttctctatcttcttggccctgctctcttgcctgact	899
Query	900	GTGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Sbjct	900	GTGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Query	960	TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	960	TGCCCTAATTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Query	1020	GTCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020	GTCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Query	1080	GCCACCAGGGACGCCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080	GCCACCAGGGACGCCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Query	1140	GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1199
Sbjct	1140	GGGAGCGCCACCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTCTT	1199 1258
Query Sbjct	1200	GTTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAA-GACTGCAATTG	1258
Query	1259	TTCTATCCCGGCCATATAACGGGTCATCGCATGGCATGG	1318
Sbjct	1259		1318
Query	1319	GTCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Sbjct	1319		1378
Query	1379	CATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379		1438
Query	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Sbjct	1439		1498
Query	1499	CGTCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Sbjct	1499	CGTCACCGGGGAAGTGCCGGCCACACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Query	1559	CGCCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Sbjct	1559		1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678

Sbjct	1619		1678
Query	1679	ATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Sbjct	1679		1738
Query	1739	CCAGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTG	1798
Sbjct	1739		1798
Query	1799	CTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799		1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1918
Sbjct	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCGATTCACCAAAGTGTGCGGAGC	2038
Sbjct	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGC	2038
Query	2039	GCCCCTTGTGTCATCGGAGGGGTGGGCAACACCCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCT	2338
Sbjct	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Query	2339	GCTGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTC	2398
Query	2399	CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399	CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGG	2458
Query	2459	GTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCTGCT	2518
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Query	2519	TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519	TGCAGACGCGCGCTCTGCTCGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
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Sbjct	2639	GTCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2698
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Sbjct	2699	GGTCTACGCCTTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCGCGTTGCCTCAGCG	2758
Query	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818

Sbjct	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
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Query	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTT000ceecTCAACGT	2938
Sbjct	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGT	2938
Query	2939	CCgggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939	CCGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTTGTTACACCCGACTCTGGTATT	2998
Query	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	tötégécégtégétágáaccagtógtóttótóccgaatégagaccaagótóatóacete	3298
Query	3299	GGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	ggggcagataccgccgcgtgcggtgacatcatcaacggcttgcccgtctctgcccgtag	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCAGGAGATACTGCTTGGACCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGCTAC	3538
Sbjct	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
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Sbjct	3719	ĊŤĊĊŤĊĠĠĂĊĊŤŤŤĂĊĊŤĠĠŤŤĂĊĠĂĠĠĊĀĊĠĊĊĠĀĊĠŤĊĂŤŤĊĊĊĠŤĠĊĠĊĊĠĠĊĠĀĠĠ	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TĠATAĠĊĀĠĠĠĠŦĀĠĊĊŦĠĊŦŦŦĊĠĊĊĊĠĠĊĊĊĀŦŦŦĊĊŦĀĊĊŦĀ	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	ġĠĠŦĊĊĠĊŦĠŦŦĠŦĠĊĊĊĠĊĠĠĠaĊaĊĠĊĠŦĠĠĠĊĊŦaŦŦĊaĠĠĠĊĊĠĊĠĠŦĠŦĠĊaĊ	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958

Sbjct	3899	CCGTGGAGTGACCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	CCACCTGCATGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	AGGAGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGCTGCGGGGGGGG	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGATTGGTTGTGCT	4378
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Sbjct	4379	cgccactgctacccctccgggctccgtcactgtgtcccatcctaacatcgaggaggttgc	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Query	4498	AGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Sbjct	4498	AGGGGGGAAGACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Query	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4617
Sbjct	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGAC	4617
Query	4618	TCCCGACCAGCGGCGATGTTGTCGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Sbjct	4618	TCCCGACCAACGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Query	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC	4737
Sbjct	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC	4737
Query	4738	TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Sbjct	4738	TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Query	4798	AACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGG	4857
Sbjct	4798	AGCGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGG	4857
Query	4858	AGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Sbjct	4858	AĞCĞCCCTCCĞĞCATĞTTCĞACTCĞTCCĞTCCTĞTĞAĞTĞCTATĞACĞCĞĞĞĞCTĞTĞ	4917
Query	4918	CTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Sbjct	4918	ĊŢŢĠĠŢŖŢĠĠĊŢĊŖŢĠĊĊĠĊĊĠĠĠĠĠŢŖĊĠŢŖĊĠŢŖĊĠŢŖ	4977
Query	4978	CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Sbjct	4978	cggggcttcccgtgtgccaggaccatcttgaattttgggagggcgtctttacgggcctca	5037
Query	5038	CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC	5097

Sbjct	5038	CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC	5097
Query	5098	TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC	5157
Sbjct	5098	TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC	5157
Query	5158	AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
Sbjct	5158	AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
Query	5218	ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA	5277
Sbjct	5218	ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA	5277
Query	5278	TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Sbjct	5278	TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Query	5338	TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5397
Sbjct	5338	TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5397
Query	5398	TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGGGGTTCTCTACCAGGAGTTCG	5457
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Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
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Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	ĊŦĂĊĊĠĊĊŦŦŦĠŦĠĠĠĊĠĊŦĠĠĊŦŦĂĠĊŦĠĠĊĠĊĊĠĊĊĂŦĊĠĠĊĀĠĊĠŦŦĠĠĂĊŦĠĠĠĠĀ	5877
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Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	tcctctcgcctggagcccttgtagtcggtgtggtctgcgcagcaatactgcgccggcacg	6057
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Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237

Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238		6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
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Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGCATTATGC	6417
Sbjct	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
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Sbjct	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478	TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Sbjct	6478	TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Query	6538	CCACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGT	6597
Sbjct	6538	CCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGT	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Sbjct	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGA	6657
Query	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG	6717
Sbjct	6658	ĊŦAĊŦĠĀĊĀĀŦĊŦŦĀĀĀŦĠĊĊĠŦĠĊĊĀĠĀŦĊĊĊĀŦĊĠĊĊĠĀĀŦŦŦŦĊĀĊĀĠĀĀŦŦĠĠ	6717
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Sbjct	6778	CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC	6837
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Sbjct	6838	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6897
Query	6898	CCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
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Sbjct	6958	TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Query	7018	TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Sbjct	7018	TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Query	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Sbjct	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Query	7138	GGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGC	7197
Sbjct	7138	GGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGC	7197
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Sbjct	7318	CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTA	7377
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Query	7438	CAACATCCTCTGAGCCCGCCCCTTCTGGCTGcccccaGACTCCGACGTTGAGTCCTATT	7497
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Sbjct	7558	CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCT	7617
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Query	7738	GCCAAAGGCAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
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Query	7918	AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACC	7977
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Query	7978	TTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCT	8037
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Query	8038	GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGG	8097
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Sbjct	8398	TTACCAATTCAAGGGGGGAAAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGA	8457
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Query
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Sbjct	180		239
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Sbjct	240		299
Query	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
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Sbjct	360		419
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Sbjct	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTAT	599
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Sbjct	1379	CATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Query	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
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Sbjct	2459		2518
Query	2519	TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519	TGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Query	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Query	2639	GTCCTTCCTCGTGTTCTTCTGCTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2698
Sbjct	2639	gtccttcctcgtgttcttctgctttgcgtggtatctgaagggtaggtgggtg	2698
Query	2699	GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGTTGCCTCAGCG	2758
Sbjct	2699	GGTCTACGCCTTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCG	2758
Query	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Sbjct	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Query	2819	AATGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819	AATGGCGCTGACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879 2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTcccccccTCAACGT	2938 2938
Sbjct Query	2939	CCqqqqqqqCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2930
Sbjct	2939	CCGGGGGGGGCGCGATGCCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Query	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999		3058
Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059		3118
Query	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119		3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	gggggcagataccgccgcgtgcggtgacatcatcaacggcttgcccgtctctgcccgtag	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCAGGAGATACTGCTTGGACCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538

Sbjct	3479		3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539		3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599		3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCCTGCCCCCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTTACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACCTA	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGACCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019 4079	CCACCTGCATGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078 4138
Query Sbjct	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139		4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199		4258
Query	4259	AGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	AGGAGGCGCTTATGACATAATATTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	cgccactgctacccctccgggctccgtcactgtgtcccatcctaacatcgaggaggttgc	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4439	tctgtccaccaccggagagatccc-tttctacggcaaggctatccccctcgaggtgatca	4497
Query	4498	AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Sbjct	4498	ÁGGGGGGÁAGÁCÁTCTCÁTCTTCTGTCÁCTCÁÁAGÁÁGÁAGTGCGÁCGÁGCTCGCCGCGÁ	4557
Query	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4617
Sbjct	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	4617
Query	4618	TCCCGACCAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677

Sbjct	4618		4677
Query	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC	4737
Sbjct	4678		4737
Query	4738	TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Sbjct	4738	TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Query	4798	AACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGG	4857
Sbjct	4798	AGCGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGG	4857
Query	4858	AGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Sbjct	4858	AGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Query	4918	CTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Sbjct	4918	CTTGGTATGAGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Query	4978	CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Sbjct	4978	CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Query	5038	CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC	5097
Sbjct	5038	CCCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC	5097
Query	5098	TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC	5157
Sbjct	5098	TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC	5157
Query	5158	AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
Sbjct	5158	AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
Query	5218	ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA	5277
Sbjct	5218	ACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCA	5277
Query	5278	TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Sbjct	5278	TGÁCATGCÁTGTCGGCCGÁCCTGGÁGGTCGTCÁCGÁGCÁCCTGGGTGCTCGTTGGCGGCG	5337
Query	5338	TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5397
Sbjct	5338	TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5397
Query	5398	TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG	5457
Sbjct	5398	TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AĞCAĞTTCAAĞCAĞAAĞĞCCCTCĞĞCCTCCTĞCAĞACCĞCĞTCCCĞCCATĞCAĞAĞĞTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGT	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	ġĠAATTTĊATĊAĠĠĠĠATAĊAATATŤŢĠĠĊĠĠĠĊĊŢĠŤĊAAĊĠĊŢĠĊĊŢĠĠŢAAĊĊĊĠ	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Query	5758	CCCTCCTCTTCAACATATTggggggGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817

Sbjct	5758	CCCTCCTCTCAACATATTGGGGGGGGGGGGGGGCCCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTG	6177
Sbjct	6118	ggaaccatgtttcccccacgcactacgtgccgagagcgatgcagccgcccgc	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	ĊĠĠĀĠŦĠŦĀĊĊĀĊĠĊĊĊĠĠĊŦĊĊŦĠĠĊŦĀĀĠĠĠĀĊĀŦĊŦĠĠĠĀĊŦĠĠĀŦĀŦĠĊĠ	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Sbjct	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Sbjct	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Query	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478	TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Sbjct	6478	TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Query	6538	CCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGT	6597
Sbjct	6538	CCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGT	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Sbjct	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Query	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG	6717
Sbjct	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG	6717
Query	6718	ACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Sbjct	6718	ACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Query	6778	CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC	6837
Sbjct	6778	CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC	6837
Query	6838	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6897
Sbjct	6838	ĊĠĠĀĊĠŤĀĠĊĊĠŤĠŤŦĠĀĊĠŤĊĊĀŤĠĊŤĊĀĊŤĠĀŤĊĊĊŤĊĊĊĀŤĀŤĀĀĊĀĠĊĀĠĀĠĠĊĠĠ	6897
Query	6898	CCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957

Sbjct	6898		6957
Query	6958	TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Sbjct	6958		7017
Query	7018	TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Sbjct	7018		7077
Query	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Sbjct	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
Query	7138	GGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGC	7197
Sbjct	7138	GGGAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGC	7197
Query	7198	CCGTCTGGGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Sbjct	7198	CCGTTTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Query	7258	ACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTC	7317
Sbjct	7258	ACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTC	7317
Query	7318	CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCG	7377
Sbjct	7318	CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTA	7377
Query	7378	AGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGA	7437
Sbjct	7378	AGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGA	7437
Query	7438	CAACATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGGACTCCGACGTTGAGTCCTATT	7497
Sbjct	7438	CAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATT	7497
Query Sbjct	7498 7498	CTTCCATGCCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGT	7557 7557
Query	7558	CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCT	7617
Sbjct	7558	CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGCTGCTCAATGTCTTATACCT	7617
Query	7618	GGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCAC	7677
Sbjct	7618		7677
Query	7678	TGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTT	7737
- Sbjct	7678		7737
Query	7738	GCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
Sbjct	7738		7797
Query	7798	ACGTGCTCAAGGAGGTCAAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
Sbjct	7798	ACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAG	7857
Query	7858	AGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
Sbjct	7858	AGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAA	7917
Query	7918	AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACC	7977
Sbjct	7918	AAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACC	7977
Query	7978	TTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCT	8037
Sbjct	7978	ttctggaagacagtgtaacaccaatagacactatcatcatggccaagaacgaggtcttct	8037
Query	8038	GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGG	8097

Sbjct	8038	GCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGG	8097
Query	8098	GCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCG	8157
Sbjct	8098	GCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCG	8157
Query	8158	TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGC	8217
Sbjct	8158	TGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGC	8217
Query	8218	AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACT	8277
Sbjct	8218	AAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACT	8277
Query	8278	CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG	8337
Sbjct	8278	CCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGG	8337
Query	8338	ACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTC	8397
Sbjct	8338	ACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTC	8397
Query	8398	TTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGA	8457
Sbjct	8398	TTACCAATTCAAGGGGGGAAAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGA	8457
Query	8458	CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCG	8517
Sbjct	8458	CAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCCGTCGAGCCG	8517
Query	8518	CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Sbjct	8518	CAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAA	8577
Query	8578	GTGCGGGGGTCCAGGAGGCCGGCGGGGCCTGAGAGCCTTCACGAGGCTATGACCAGGT	8637
Sbjct	8578	GTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTTACGGAGGCTATGACCAGGT	8637
Query	8638	ACTCCGcccccccggggacccccaCAACCAGAATACGACTTGGAGCTTATAACATCAT	8697
Sbjct	8638	ACTCCGCCCCCGGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCAT	8697
Query	8698	GCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCC	8757
Sbjct	8698	GCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAAAGGGTCTACTACCTTACCC	8757
Query	8758	GTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCA	8817
Sbjct	8758	GTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACCCCAGTCA	8817
Query	8818	ATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGA	8877
Sbjct	8818	ATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGA	8877
Query	8878	TGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTG	8937
Sbjct	8878	TGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTG	8937
Query	8938	AGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC	8997
Sbjct	8938	AGATCTACGCAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGAC	8997
Query	8998	TCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGG	9057
Sbjct	8998	TCCATGGCCTCAGCGCATTTTACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGG	9057
Query	9058	CCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGA	9117
Sbjct	9058	CCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGA	9117
Query	9118	GCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCT	9177
Sbjct	9118	GCGTCCGCGCTAGGCTTCTGTCCAGGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCT	9177
Query	9178	TCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGGC	9237

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Length=9416
Score = 1.688e+04 bits (9140), Expect = 0.0 Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
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Sbjct
     1
Query
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Sbjct
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Sbjct
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Query
     781
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Sbjct	781		840
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Sbjct	841		900
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Sbjct	901		960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	ccaccaggacgcaaactccccacaacgcagcttcgacgtcatatcgatctgcttgtcg	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCACCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261 1321	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGAATATGATGATGAACTGGT	1320 1380
Query Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGA	1440
Sbjct	1381		1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441		1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TĠAACTĠĊAATĠAAAĠĊĊŤŦAAĊAĊĊĠĠĊŦĠĠŤŦAĠĊĀĠĠĠĊŤĊŤŤĊŤAŤĊĀĠĊĀĊĀĀAŤ	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860 1920
Query Sbjct	1861 1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1920
Zuct J	1741	1.01.301.30001.001.101.101.101.101.101.1	± > 0 0

Sbjct	1921		1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981		2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041		2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	gcatggtcgactacccgtataggctttggcactatccttgtaccatcaattacaccatat	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401 2461	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCTGCTTG	2460 2520
Query Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
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Sbjct	2581		2640
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Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGTGCCTCAGCGGG	2760
Sbjct	2701	tctacgccctctacgggatgtggcctctcctcctgctcctgctgctgcctcagcggg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTAA	2820
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Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
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Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060 3120
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	2120

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Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
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Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
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Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
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Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600 3660
Query Sbjct	3601 3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
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Sbjct	3661		3720
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Sbjct	3721		3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
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Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	ĠŤĠĠĂĠŤĠĠĊŤĂĂĠĠĊĠĠŤĠĠĂĊŤŤĂŤĊĊĊŤĠŤĠĠĂĠĂĂĊĊŤĂĠAĠĂĊĂĂĊĊĂŤĠĀĠĂŤ	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
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Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081 4141	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT  ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4140 4200
Query Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGCCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
×~~~	- L V T		-200

Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
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Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
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Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	ĊĠĂĊĊĀĠĊĠĠĊĠĀŦĠŦŦĠŦĊĠŦĊĠŦĠŦĊĠĀĊĠĀŦĠĊŦĊŦĊĀŦĠĀĊŦĠĠĊŦŦŦĀĊĊĠĠĊĠ	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGCGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400

Sbjct	5341		5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401		5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461		5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	atttcatcagtgggatacaatacttggcgggcctgtcaacgctgcctggtaaccccgcca	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTĠĊŢŢĊĂŢŢĠĂŢĠĠĊŢŢŢŢĀĊĀĠĊŢĠĊĊĠŢĊĀĊĊĀĠĊĊĠĊŢĀĀĊĊŔĊŢĠĠĊĊĀĀĀĊĊĊ	5760
Query	5761	TCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCGCACCTCGACAGCGTTGGACTGGGGAAG	5879
Query	5880 5880	GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939 5939
Sbjct Query	5940	AAGATCATGAGCGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Query	6000	CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT	6059
Sbjct	6000		6059
Query	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Sbjct	6060		6119
Query	6120	AACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6179
Sbjct	6120	AACCATGTTTCCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6179
Query	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATT	6359
Sbjct	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATT	6359
Query	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539

Sbjct	6480		6539
Query	6540	ACGGGCCCCTGTACTCCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540	ACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT	6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGAC	6719
Sbjct	6660	ACTGACAATCTCAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAC	6719
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Sbjct	6720	ggggtgcgcctacataggtttgcgcccccttgcaagcccttgctgcggaggaggtatca	6779
Query	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Sbjct	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Query	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6899
Sbjct	6840	GÁCGTÁGCCGTGTTGÁCGTCCÁTGCTCÁCTGÁTCCCTCCC	6899
Query	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Query	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
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Query	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Sbjct	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Query	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Sbjct	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
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Sbjct	7320		7379
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Sbjct	7380		7439
Query	7440	ACATCCTCTGAGCCCGCCCCTTCTGGCTGagagagaGAGTCCGACGTTGAGTCCTATTCT	7499
Sbjct	7440		7499
Query	7500	TCCATGeecccatGGGGGGGGGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCG	7559
Sbjct	7500		7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGG	7619
Sbjct	7560		7619
Query	7620	ACAGGCGCACTCGTCACCCCGTGCGCGCAAGAACAAAAACTGCCCATCAACGCACTG	7679

Sbjct	7620	ACAGGCGCACTCGTCACCCCGTGCGCTGCGGAGGAACAAAAACTGCCCATCAACGCACTG	7679
Query	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Sbjct	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
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Sbjct	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860	GAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860	GAAGCTTGCAGCCTGGCGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Query	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTT	7979
Sbjct	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTT	7979
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Sbjct	7980	ĊŢĠĠAAĠAĊAĠŢĠŢAAĊAĊĊAAŢAĠAĊAĊŢĀĊĊAŢĊĀŢĠĠĊĊĀĀĠĀAĊĠĀĠĠŢŢŢŢĊŢĠĊ	8039
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Sbjct	8040	GTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGC	8099
Query	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Sbjct	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCTTGGCCGTG	8159
Query	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAA	8219
Sbjct	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAA	8219
Query	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Sbjct	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGCTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Query	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Query	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Sbjct	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399
Query	8400	ACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACA	8459
Sbjct	8400	ACTAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCAGAGTACTGACA	8459
Query	8460	ACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Sbjct	8460	ACTAGCTGTGGTAACACCCTCACTCGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Query	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Sbjct	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Query	8580	GCGGGGGTCCAGGAGGACGCGGCGGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
Sbjct	8580	GCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
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Sbjct	8640	TCCGCCCCCCGGGGACCCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGC	8699
Query	8700	TCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
Sbjct	8700	TCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
Query	8760	GACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACCCCAGTCAAT	8819

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                                                 9416
>dbj|DI128636.1| VACCINES CONTAINING RIBAVIRIN ANDMETHODS OF USE THEREOF Length=9416
Score = 1.688e+04 bits (9140), Expect = 0.0 Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus
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Query

361

420

Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	ĠĊĀĀŢĠĀĠĠĠŤŢĠĊĠĠĠŢĠĠĊĠĠĠĀŢĠĠĊŢĊŢĠŢĊŢĊĊĊĊĠŢĠĠĊŢĊŢĊĠĊĊŢĀĠĊŢ	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	ggggcccacagaccccggcgtaggtcgcgcaatttgggtaaggtcatcgataccctta	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	ĊĠŦĠĊĠĠĊŦŦĊĠĊĊĠĂĊĊŦĊĀŦĠĠĠĠŦĂĊĂŦĂĊĊĠĊŦĊĠŦĊĠĠĊĠĊĊĊĊŦĊŦŦĠĠĀĠĠĊĠ	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	ĊŢĠĊĊĀĠĠĠĊĊŢĠĠĊĠĊĀŢĠĠĊĠŢĊĊĠĠĠŢŢĊŢĠĠĀĀĠĀĊĠĠĊĠŢĠĀĀĊŢĀŢĠĊĀĀĊĀĠ	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	ggaaccttcctggttgctctttctctatcttccttctggccctgctctttgcctgactg	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TĠĊĊĊĠĊŦŦĊAĠĊĊŦAĊĊAAĠŦĠĊĠĊAAŦŦĊĊŤĊĠĠĠĠĊŦŦŦAĊĊAŦĠŦĊAĊĊAAŦĠAŦŦ	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	ĠĊĊĊŦĂĂĊŦĊĠĂĠŦĠŦŦĠŦĠŦĂĊĠĂĠĠĊĠĠĊĊĠĂŦĠĊĊĂŦĊĊŦĠĊĂĊĂĊŦĊĊĠĠĠĠŦĠŦĠ	1020
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Sbjct	1021	†CCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
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Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTĠĠŢĊĀĀĊŢĠŢŢŢĀĊĊŢŢĊŢĊŢĊĊĠĠĠĊĀĊĠĊĀĊŢĠĠĀĊĠĠĊĀĀĠĀĊŢĠĊĀĀŢĠŢŢ	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGAATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGCGCCCACTGGGGAGTCCTGGCGGGCATAAAGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
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Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
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Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
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Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
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Sbjct	1861	ATTGCTTCACTCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
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Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
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Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
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Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCA	2400
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Sbjct	2401	ccggcctcatccacctccaccagaacattgtggacgtgcagtacttgtacggggtagggt	2460
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Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTTG	2520
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Sbjct	2521	CAGACGCGCGCGTCTGTTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700

Sbjct	2641		2700
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Sbjct	2701		2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761		2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTcccccccTCAACGTCC	2940
Sbjct	2881		2940
Query	2941	្ធធ្វធ្វធ្វធ្វឲ្យCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
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Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540 3540
Sbjct	3481 3541	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC  AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query Sbjct	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGACGTATACCAATGTGGACCAGGTIIIIIIIIII	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840

Sbjct	3781		3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbict	3841		3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081		4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	CĠĠĠĊĀŤĊĠĠĊĀĊŤĠŤĊĊŤŤĠĀĊĊĀĀĠĊĀĠĀĠĀĊŤĠĊĠĠĠĠĠĠĠĠ	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGTCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980

Sbjct	4921	GGTATGAGCTCACGCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGCGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TĠĠĊŢĠĊŢĊŢĠĠĊĠĊĠŢĂŢŢĠĊĊŢĠŢĊĂĂĊĂĠĠĊŢĠĊĠŢĠĠŢĊĂŢĀĠŢĠĠĠĊĀĠĠĂŢĊĠ	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTqqqqqqTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTGGCGCGC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
Query	5880	GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880	GTCCTCGTGGACATTCTTGCAGGCTATGGCGGGGCGTGGCGGGAGCTCTTGTGGCATTC	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Query	6000	CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT	6059
Sbjct	6000	CTCTCACCTGGAGCCCTTGCAGTCGGTGTGGTCTTTGCATCAATACTGCGCCGGCGTGTT	6059
Query	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119

Sbjct	6060		6119
Query	6120	AACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTGCC	6179
Sbjct	6120		6179
Query	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180		6239
Query	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240		6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATT	6359
Sbjct	6300	gtgctgagcgactttaagacctggctgaaagccaagctcatgccacaactgcctgggatt	6359
Query	6360	CCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGGTCTGGCGAGGAGACGCATTATGCAC	6419
Sbjct	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480	GTCGGTCCTAGGACCTGCAAGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
Query	6540	ACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct Query	6540 6600	ACGGGCCCCTGTACTCCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACT	6599 6659
Sbjct	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGTATGACT	6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAC	6719
Sbjct	6660		6719
Query	6720	GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Sbjct	6720		6779
Query	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Sbjct	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Query	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6899
Sbjct	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6899
Query	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Query	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Sbjct	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Query	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Sbjct	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Query	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Sbjct	7080 7140	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCC	7139 7199
Query Sbjct	7140	GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCC	7199
Query	7200	GTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
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Sbjct	7200	GTCTGGGCGCGGCCGGACTACAACCCCCTGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Query	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCCG	7319
Sbjct	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCG	7319
Query	7320	CCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAG	7379
Sbjct	7320	CCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTA	7379
Query	7380	CTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACA	7439
Sbjct	7380	CTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACA	7439
Query	7440	ACATCCTCTGAGCCCGCCCCTTCTGGCTGaccacaGACTCCGACGTTGAGTCCTATTCT	7499
Sbjct	7440	ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCT	7499
Query	7500	TCCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCG	7559
Sbjct	7500	TCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCG	7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGG	7619
Sbjct	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGG	7619
Query	7620	ACAGGCGCACTCGTCACCCCGTGCGCGCAGAACAAAACTGCCCATCAACGCACTG	7679
Sbjct	7620	ACAGGCGCACTCGTCACCCCGTGCGCTGCGGAGGAACAAAACTGCCCATCAACGCACTG	7679
Query	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Sbjct	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Query	7740	CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Sbjct	7740	CAAAGGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Query	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Sbjct	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860	GAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860	GAAGCTTGCAGCCTGGCGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Query	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTT	7979
Sbjct	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTT	7979
Query	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
Sbjct	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
Query	8040	GTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGC	8099
Sbjct	8040	GTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGC	8099
Query	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCTGGCCGTG	8159
Sbjct	8100	graceceretecentes	8159
Query	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAA	8219
Sbjct	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAA	8219
Query	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Sbjct	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGCTCTCGTATGATACCCGCTGTTTTGACTCC	8279
Query	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Sbjct	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
Query	8340	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTT	8399

Sbjct	8340		8399
Query	8400	ACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACA	8459
Sbjct	8400		8459
Query	8460	ACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Sbjct	8460		8519
Query	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Sbjct	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
Query	8580	GCGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
Sbjct	8580	GCGGGGGTCCAGGAGGACGCGGGGGGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
Query	8640	TCCGcccccccggggaccccccACAACCAGAATACGACTTGGAGCTTATAACATCATGC	8699
Sbjct	8640	TCCGCCCCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGC	8699
Query	8700	TCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGGTCTACTACCCTT	8759
Sbjct	8700	TCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
Query	8760	GACCCTACAACCCCCCTCGCGAGAGCCCGCGTGGGAGACAGCAAGACACTCCAGTCAAT	8819
Sbjct	8760	GACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACCCCAGTCAAT	8819
Query	8820	TCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATG	8879
Sbjct	8820	TCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATG	8879
Query	8880	ACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAG	8939
Sbjct	8880	ACCCACTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTCAACTGCGAG	8939
Query	8940	ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC	8999
Sbjct	8940	ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC	8999
Query	9000	CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC	9059
Sbjct	9000	CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCC	9059
Query	9060	GCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGC	9119
Sbjct	9060	GCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCTGGAGC	9119
Query	9120	GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Sbjct	9120	GTCCGCGCTAGGCTTCTGGCCAGAGGAGGCCAAGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Query	9180	AACTGGGCAGTAAGAACAAAGCTCAAACTCCAATAGCGGCCGCTGGCCGGCTGGAC	9239
Sbjct	9180	AACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCGATAACGGCCGCTGGCCGGCTGGAC	9239
Query	9240	TTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGGAGACATTTATCACAGCGTGTCTCAT	9299
Sbjct	9240	TTGTCCGGCTGGTTCACGGCTGCCTACAGCGGGGAGACATTTATCACAGCGTGTCTCAT	9299
Query	9300	GCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTAC	9359
Sbjct	9300	GCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTTGCT	9359
Query	9360	CTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCC-GGCCTCTTAAGCCATTTCCT 9	9416
Sbjct	9360		9416

>gb|EA281575.1| Sequence 13 from patent US 7261883 Length=9416

Score = 1.688e+04 bits (9140), Expect = 0.0

Identities = 9326/9418 (99%), Gaps = 4/9418 (0%) Strand=Plus/Plus

001011	a 1140	, 1 1 40	
Query	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Sbjct	1	GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG	60
Query	61	TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	120
Sbjct	61	ŤĊŤŤĊĂĊĠĊĀĠĀĀĀĠĊĠŤĊŤĀĠĊĊĀŤĠĠĊĠŤŤĀĠŤĀŤĠĀĠŤĠŤĊĠŤĠĊĀĠĊĊŤĊĊĀĠĠĀĊ	120
Query	121	cccccccccccccccccccccccccccccccccccccc	180
Sbjct	121	CCCCCCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCACAGACCCCCGGCGTAGGTCGCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCTAACTCGAGTGTTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140

Sbjct	1081		1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141		1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCACCACTGGACGACGCAAGACTGCAATTGTT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGAATATGATGATGAACTGGT	1320
Query	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGAATCCCACAAGCCATCATGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TĠATĊĠĊŢĠĠĊĠĊĊĊAĊŢĠĠĠĠĀĠŢĊĊŢĠĠĊĠĠĠĊĂŢĀAAĠŢĂŢŢŢĊŢĊĊĀŢĠĠŢĠĠĠĀ	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct Query	1621 1681	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1680 1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741		1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801		1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861		1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	gcatggtcgactacccgtataggctttggcactatccttgtaccatcaattacaccatat	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280

Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGTTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	ccttcctcgtgttcttctgctttgcgtggtatctgaagggtaggtgggtg	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCGTTGCCTCAGCGGG	2760
Sbjct	2701	tctacgcctctacgggatgtggcctctcctcctgctcctgctgctgcctcagcgg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TĠĠĊĠĊŤĠĂĊŤĊŤĠŤĊĠĊĊĂŦĂŤŤĂĊĂĂĠĊĠĊŤĂŤĂŤĊĂĠĊŤĠĠŤĠĊĂŤĠŤĠĠŤĠĠĊŤŤĊ	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTccccccctCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ĠĠĠĠĠĠĠĠĠĠĊĠĊĠĸŢĠĊĊĠŢĊĸŢĊŢŢĸĊŢĊĸĊĠŢĠŢĠŢĸĠŢĸĊĸĊĊĠĠĊĊĊŢĠĠŢĸŢŢŢĠ	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCGC	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	cctgtgtgtataaccatctcgctcctcttcgagactgggcgcacaacggcctgcgagatc	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	rggccgrggcrgrggaaccagrcgrcrrcrcccgaarggagaccaagcrcarcacgrgg	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	gggcagataccgccgcgtgcggtgacatcatcaacggcttgcccgtctctgcccgtaggg	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420

Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGACGTATACCAATGTGGATCAAG	3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661	ACCTCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	cctcggacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccgaggtg	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	gtccgctgttgtgccccacgggacacgccgtgggcctattcagggccgcgcgtgtgcaccc	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	gtggagtggctaaggcggtggactttatccctgtggagaacctagagacaaccatgagat	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	ccccggtgttcacggacaactcctctccaccagcagtgccccagagcttccaggtgccc	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	CĠĠĠĊĂŤĊĠĠĊĂĊŤĠŤĊĊŤŤĠĂĊĊĂĂĠĊĂĠĂĠŤĠĊĠĠĠĠĠĠĠĠ	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	ccactgctacccctccgggctccgtcactgtgtcccatcctaacatcgaggaggttgctc	4440
Query	4441	TGTCCACCGGGAGAGTCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560

Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561		4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681		4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	gccggggcaggactggcaggggaagccaggcatctatagatttgtggcaccggggagc	4860
Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040 5100
Query Sbjct	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101		5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161		5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221		5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TĠĠĊŢĠĊŢĊŢĠĠĊĠĊĠŢĀŢŢĠĊĊŢĠŢĊĀĀĊĀĠĠĊŢĠĊĠŢĠĠŢĊĀŢĀĠŢĠĠĠĊĀĠĠĀŢĊĠ	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640 5640
Sbjct Query	5581 5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
∧пет	704T	#1110/11001000011000001010000000010100001000010000	5/00

Sbjct	5641		5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTqqqqqqTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCCCCCCATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
Query	5880	GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880	GTCCTCGTGGACATTCTTGCAGGCTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTC	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Query	6000	CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT	6059
Sbjct	6000	ĊŤĊŤĊĸĊĊŤĠĠĸĠĊĊĊŤŤĠĊĸĠŤĊĠĠŤĠŤĠŤĊŤŦŢĠĊĸŤĊĸĸŤĸĊŤĠĊĠĊĊĠĠĊĠŦĠŤŤ	6059
Query	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Sbjct	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Query	6120	AACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6179
Sbjct	6120	AACCATGTTTCCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6179
Query	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGGGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGGACATCTGGGACAGCTGGATATGCGAG	6299 6359
Query Sbjct	6300 6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATT	6359
Ouerv	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360		6419
Query	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420		6479
Query	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480		6539
Query	6540	ACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540		6599
Query	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600		6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAC	6719
Sbjct	6660	ACTGACAATCTCAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAC	6719
Query	6720	GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Sbjct	6720	GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Query	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839

Sbjct	6780		6839
Query	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6899
Sbjct	6840		6899
Query	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900		6959
Query	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Sbjct	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Query	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Sbjct	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Query	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Sbjct	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Query	7140	GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCC	7199
Sbjct	7140	ĠĂĠĠŤĊŤĊĊĠŤĂĊĊĊĠĊĂĠĂĂĂŤŤĊŤĠĊĠĠĂĀĠŤĊŤĊĠĠĀĠĂŤŤĊĠĊĊĊAĠĊĊĊŤĠĊĊĊ	7199
Query	7200	GTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Sbjct	7200	GTCTGGGCGCGGCCGGACTACAACCCCCTGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Query	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCCG	7319
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Query Sbjct	7380 7380	CTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACA	7439 7439
Query	7440	ACATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCT	7499
Sbjct	7440		7499
Query	7500	TCCATGccccctTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCG	7559
Sbjct	7500		7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGG	7619
Sbjct	7560		7619
Query	7620	ACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTG	7679
Sbjct	7620		7679
Query	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
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Query	7740	CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Sbjct	7740	CAAAGGAAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
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Sbjct	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Query	7860	GAAGCTTGCAGCCTGACGCCCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
Sbjct	7860	GAAGCTTGCAGCCTGGCGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
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Sbjct	7920	GACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTT	7979
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Sbjct	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAA	8219
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Query	8460	ACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Sbjct	8460	ACTAGCTGTGGTAACACCCTCACTCGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCA	8519
Query	8520	GGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGT	8579
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Query	8580	GCGGGGGTCCAGGAGGCCGGGGGGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
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Sbjct	8700	TCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGGTCTACTACCTTACCCGT	8759
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Sbjct	8760	GACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAAT	8819
Query	8820	TCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATG	8879
Sbjct	8820	TCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATG	8879
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Query	8940	ATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC	8999
Sbjct	8940	atctacggagcctgctactccatagaaccactggatctacctccaatcattcaaagactc	8999
Query	9000	CATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCC	9059
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                                                      120
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Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781		840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
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Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
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Sbjct	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
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Query	1201 1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260 1260
Sbjct Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261		1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381		1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
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Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
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Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
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Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
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Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
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Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊĀĀĀTĀTĊĊĠĠĀĀĠĊĊĀĊĀTĀĊŦĊŦĊĠĠŦĠĊĠĠĊŦĊĊĠĠŦĊĊĊĀĠĠĀŦŦĀĊĀĊĊĊĀĠĠŦ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	ĠĊATĠĠŤĊĠAĊŤÁĊĊĊĠŤAŤAĠĠĊŤŤŤĠĠĊĀĊŤAŤĊĊŤŤĠŤAĊĊĀŤĊAŤŤAĊĀĊĊĀŤĀŤ	2220
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Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
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Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCTGCTTG	
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Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
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Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
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Sbjct	3841	GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
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Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
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Sbjct	4081		4140
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Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201		4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
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Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
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Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
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Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
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Query Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
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Sbjct	4921	GGTATGAGCTCACGCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
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Sbjct	5101	TÄĞCĞTÄCCÄÄĞCCÄCCĞTĞTĞCĞCTÄĞĞĞCTCÄÄĞCCCCTCCCCATCĞTĞĞĞÄCCÄĞÄ	5160
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Sbjct	5161	TGCGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280

Sbjct	5221		5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
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Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
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Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
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Query Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCCCATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821		5879
Query	5880	GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880		5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
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Sbjct	6000	ctctcacctggagcccttgcagtcggtgtggtctttgcatcaatactgcgccggcgtgtt	6059
Query	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
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Sbjct	6120	AACCATGTTTCCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTGCC	6179
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Sbjct	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
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Sbjct	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGGACATCTGGGACATGCGACA	6299
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Sbjct	6300 6360	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATT	6359 6419
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Query	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420		6479
Query	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480		6539
Query	6540	ACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540		6599
Query	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGCATGACT	6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGAC	6719
Sbjct	6660	ACTGACAATCTCAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAC	6719
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Query	6900 6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959 6959
Sbjct Query	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
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Sbjct	7020		7079
Query	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
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Sbjct	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCG	7319
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Query Sbjct	7440 7440	ACATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCT	7499
Query	7500	TCCATGccccccTGGGGGGGGGCCCTGGGGATCCGACGTGGGTCATGGTCG	7559
Zuery	, 500	POIDD INCOME TO THE POST OF TH	, 555

Sbjct	7500		7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGG	7619
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Sbjct	361	CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
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Sbjct	481	gcgcgacgaggaagacttccgagcggtcgcaacctcgaggtagacgtcagcctatcccca	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	ĠĊĀĀŦĠĀĠĠĠŦŦĠĊĠĠĠŦĠĠĠĊĠĠĠĀŦĠĠĊŦĊŦĠŦĊŦĊĊĊĊĠŦĠĠĊŦĊŦĊĠĠĊĊŦĀĠĊŦ	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
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Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT	960
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Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
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Sbjct	1141 1201	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTTTG	1200 1260
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Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1320
Sbjct	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Query	1321	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
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Sbjct	1381	TGATCGCTGGCGCCCACTGGGGGAGTCCTGGCGGGCATAAAGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	ggCaCTaCCCTCCaagaCCTTGTGGCATTGTGCCCGCAaaGAGCGTGTGTGGCCCGGTAT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	cccttgtgtcatcggagggtggcaacaacaccttgctctgcccactgattgcttcc	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊĀĀĀTĀŤĊĊĠĠĀĀĠĊĊĀĊĀŦĀĊŤĊŤĊĠĠŤĠĊĠĠĊŤĊĊĠĠŤĊĊĊĀĠĠĀŤŤĀĊĀĊĊĊĀĠĠŤ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	tgtccaccacacagtggcaggtccttccgtgttctttcacgaccctgccagccttgtcca	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580

Sbjct	2521	CAGACGCGCGCGTCTGTTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTT@ccccctCAACGTCC	2940
Sbjct	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCC	2940
Query	2941	gggggggCCCGATCCCGTCATCTTACTCATGTGTGTACTACACCCCGACCCTGGTATTTG	3000
Sbjct	2941	ggggggggggcgcgatgccgtcatcttactcacgtgtgtagtacacccggccctggtatttg	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001	acatcaccaaactactcctggccatcttcggacccctttggattcttcaagccagtttgc	3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCGAAGCGCGGA	3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	cctgtgtgtataaccatctcgctctttcgagactgggcgcacaacggcctgcgagatc	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TĠĠĊĊĠŦĠĠĊŦĠŦĠĠAAĊĊĀĠŦĊĠŦĊŦŦĊŦĊĊĊĠAAŦĠĠĀĠAĊĊĀĀĠĊŦĊĀŦĊĀĊĠŦĠĠĠ	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	ĠĊĊĀĠĠĀĠĀŦĀĊŦĠĊŦŦĠĠĠĊĊĀĠĊĠĀĊĠĠĀĀŦĠĠŦĊŦĊĊĀĀĠĠĠŦĠĠĀĠĠŦŦĠĊŦĠĠ	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGTTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541	AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGACGTATACCAATGTGGATCAAG	3660
Query	3661	ACCTTGTGGGCCGGCCCCCCCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720

Sbjct	3661		3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	gtggagtggctaaggcggtggactttatccctgtggagaacctagagacaaccatgagat	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	ccccggtgttcacggacaactcctctccaccagcagtgccccagagcttccaggtgccc	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	acctgcatgctccaccggcagcggtaagagcaccaaggtcccggctgcgtacgcagcca	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTATTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	CĠĠĠĊĂŤĊĠĠĊĂĊŤĠŤĊĊŤŤĠĂĊĊĂĂĠĊĂĠĂĠĂĊŤĠĊĠĠĠĠĠĠĠĠ	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501	ĠĠĠĠĂĂĠĂĊĂŤĊŤĊĂŤĊŤŤĊŤĠĊĊĂĊŤĊĂĂĂĠĂĂĠŤĠĊĠĂĊĠĂĠĊŤĊĠĊĊĠĊĠĂĠĊ	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	acttcgactctgtgatagactgcaacacgtgtgtcactcagacagtcgattttagccttg	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	accctacctttaccattgagacaaccacgctccccaggatgctgtctccaggactcaac	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860

Sbjct	4801		4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861		4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921		4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGCGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct Query	5341 5401	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG  TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5400 5460
Sbjct	5401		5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461		5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521		5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581		5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641		5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query	5761	TCCTCTTCAACATATTggggggGGGGGGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821	ccgcctttgtggcgctggcttagctggcgcgcac-tcgacagcgttggactgggaag	5879
Query	5880	GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880	ĠŦĊĊŦĊĠŦĠĠĂĊĂŦŦĊŦŦĠĊĀĠĠĊŦĀŦĠĠĊĠĊĠĠĠĊĠŦĠĠĊĠĠĠĀĠĊŦĊŦŦĠŦĠĠĊĀŦŦĊ	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999

Sbjct	5940		5999
Query	6000	CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT	6059
Sbjct	6000		6059
Query	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Sbjct	6060		6119
Query	6120	AACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6179
Sbjct	6120	AACCATGTTTCCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6179
Query	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240	ĠĂĠŦĠŦĂĊĊĂĊŦĊĊĂŦĠĊŦĊĊĠĠŦŦĊĊŦĠĠĊŦĂĀĠĠĠĂĊĂŦĊŦĠĠĠĂĊŦĠĠĀŦĀŦĠĊĠĀĠ	6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATT	6359
Sbjct	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATT	6359
Query	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGCATTATGCAC	6419
Query	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420 6480	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6479 6539
Query Sbjct	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Query	6540	ACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540	ACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600		6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAC	6719
Sbjct	6660	ACTGACAATCTCAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGAC	6719
Query	6720	GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Sbjct	6720	GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Query	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Sbjct	6780	ttcagagtaggactccacgagtacccggtggggtcgcaattaccttgcgagcccgaaccg	6839
Query	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6899
Sbjct	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6899
Query	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Query	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Sbjct	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Query	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Sbjct	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079 7139
Query	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	1139

Sbjct	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Query	7140	GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCC	7199
Sbjct	7140	GAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCAGCCCTGCCC	7199
Query	7200	GTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Sbjct	7200	GTCTGGGCGCGGCCGGACTACAACCCCCTGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Query	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCCG	7319
Sbjct	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCG	7319
Query	7320	CCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAG	7379
Sbjct	7320	CCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTA	7379
Query	7380	CTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACA	7439
Sbjct	7380	CTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACA	7439
Query	7440	ACATCCTCTGAGCCCGCCCCTTCTGGCTGacccacGACTCCGACGTTGAGTCCTATTCT	7499
Sbjct	7440	acatcctctgagcccgccccttctggctgccccccgactccgacgttgagtcctattct	7499
Query	7500	TCCATGccccccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCG	7559
Sbjct	7500	tccatgcccccctggaggggagcctgggatccggatctcagcgacgggtcatggtcg	7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGG	7619
Sbjct	7560	acggtcagtagtggggccgacacggaagatgtcgtgtgctgctcaatgtcttattcctgg	7619
Query	7620	ACAGGCGCACTCGTCACCCCGTGCGCGCAGAAAAACTGCCCATCAACGCACTG	7679
Sbjct	7620	acaggegeactegicaceeegrgegegeggaggaacaaaaactgeeeateaacgeactg	7679
Query	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Sbjct	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Query	7740	CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Sbjct	7740	CAAAGGAAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Query	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Sbjct	7800	ĠŤĠĊŤĊĂĀĠĠĀĠĠŤĊĀĀĀĠĊĀĠĊĠĠĊĠŤĊĀĀĀĀĠŤĠĀĀĠĠĊŤĀĀĊŤŤĠĊŤĀŤĊĊĠŤĀĠĀĠ	7859
Query	7860	GAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919
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Query	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039
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Query	8040	GTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGC	8099
Sbjct	8040	gttcagcctgagaagggggtcgtaagccagctcgtctcatcgtgttccccgacctgggc	8099
Query	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Sbjct	8100	gtgcgcgtgtgcgagaagatggccctgtacgacgtggttagcaagctccccttggccgtg	8159
Query	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAA	8219
Sbjct	8160	atgggaagctcctacggattccaatactcaccaggacagcgggttgaattcctcgtgcaa	8219
Query	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279

G1 ' '	0000		0070
Sbjct	8220 8280	GCGTGGAAGTCCAAGAAGACCCCGATGGGGCTCTCGTATGATACCCGCTGTTTTTGACTCC	8279 8339
Query	8280	ACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGAC	8339
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Sbjct			8459
Query	8400	ACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACA	8459
Sbjct	8460		8519
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Sbjct	8520		8579
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Sbjct	8580	GCGGGGGTCCAGGAGGACGCGGGGGGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTAC	8639
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Sbjct Query	8640	TCCGccccccccccccCACACCAGAATACGACTTGGAGCTTATAACATCATGC	8699
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Query	8700	TCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGT	8759
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Query	8820	TCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATG	8879
Sbjct	8820		8879
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- Sbjct	8940		8999
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Sbjct	9000		9059
Query	9060	GCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGC	9119
Sbjct	9060		9119
Query	9120	GTCCGCGCTAGGCTTCTGTCCAGAGGAGGCCAGGGCTGCCATATGTGGCAAGTACCTCTTC	9179
Sbjct	9120		9179
Query	9180	AACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGGC	9239
Sbjct	9180		9239
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Sbjct	9240	TTGTCCGGCTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCAT	9299
Query	9300	GCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTAC	9359
Sbjct	9300	GCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTTGCT	9359
Query	9360	CTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCC-GGCCTCTTAAGCCATTTCCT 9	416

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Sbjct
           Sequence 13 from patent US 7241440
>gb|EA264407.1|
Length=9416
Score = 1.688e+04 bits (9140), Expect = 0.0 Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
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                                                    120
Sbjct
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Query
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        181
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Sbjct
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                                                    780
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                                                    900
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Sbjct
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         Sbjct
     901
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                                                    1020
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Sbjct	961		1020
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Sbjct	1021		1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGTCG	1140
Sbjct	1081		1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141		1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261		1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381		1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacatccaactgatcaacaccaacggcagttggcacatcaatagcacggcct	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCÁCTÁCCCTCCAÁGÁCCTTGTGGCÁTTGTGCCCGCÁÁÁGAGCGTGTGTGGCCCGGTÁT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ÁCAGCTGGGGTGCAÁATGÁTACGGÁTGTCTTCGTCCTTAÁCAÁCÁCCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ĠĊĀĀŤŤĠĠŤŤĊĠĠŤŤĠŤĀĊĊŤĠĠĀŤĠĀĀĊŤĊĀĀĊŤĠĠĀŤŤĊĀĊĊĀĀĀĠŤĠŤĠĊĠĠĀĠĊĠĊ	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160

Sbjct	2101		2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161		2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221		2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	ccggcctcatccacctccaccagaacattgtggacgtgcagtacttgtacggggtagggt	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGCTTG	2520
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Sbjct	2521	CAGACGCGCGCTCTGTTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640 2700
Query	2641 2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGTGCCTCAGCGGG	2760
Sbjct	2701		2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761		2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
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Sbjct	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC	2940
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Sbjct	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
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Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Query Sbjct	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240 3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Zuer À	シムオエ	DEDIEDADIA DI DANDA DA DA DE	5500

Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	gggcagataccgccgcgtgacatcatcaacggcttgcccgtctctgcccgtaggg	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
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Sbjct	3541	AGACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
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Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
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Sbjct	3841	grccgcrgrrgrgccccacgggacacgccgrgggccrarrcagggccgcgcgrgrgcaccc	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	GTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
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Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
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Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
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Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCAAGC	4560
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Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
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Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
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Query	4861	GCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	gcccctccggcatgttcgactcgtccgtcctctgtgagtgctatgacgcgggctgtgctt	4920
Query	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	ggcttcccgtgtgccaggaccatcttggattttgggagggcgtcttacgggcctcactc	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	ŤĠĊĠĠĂĂĠŤĠŤŤŤĠĂŤĊĊĠĊĊŤŤĂĂĂĊĊĊĂĊĊĊŤĊĊĂŤĠĠĠĊĊĂĂĊĂĊĊĊĊŤĠĊŤĂŤĂĊĂ	5220
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Sbjct	5341	† gctgctctgccccctattgcctgtcaacagctgcgtggtcatagtggcaggatcg	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	tcttgtccgggaagccggcaattatacctgacagggaggttctctaccaggagttcgatg	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	agatggaagagtgctctcagcacttaccgtacatcgagcaagggatgatgctcgctgagc	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580

Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
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Sbjct	5761	tcctcttcaacatattgggggggtggctgcccagctcgcccccggtgccgcta	5820
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Query	5880	GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880	ĠŦĊĊŦĊĠŦĠĠĀĊĀŦŦĊŦŦĠĊĀĠĠĊŦĀŦĠĠĊĠĠĠĠĠĠĠĠĠĠ	5939
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Sbjct	6000	CTCTCACCTGGAGCCCTTGCAGTCGGTGTGTTTTGCATCAATACTGCGCCGGCGTGTT	6059
Query	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
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Sbjct	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
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Sbjct	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
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Sbjct	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480	GTCGGTCCTAGGACCTGCAAGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
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Sbjct	6540	ACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGCATGACT	6659
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Sbjct Query	7260 7320	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCGTCCACGGTCCCCTCTGTGCCTCCG  CCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAG	7379
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Query Sbjct	7860	GAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGCAAAA	7919
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Query

541

600

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Sbjct	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
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Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
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Query Sbjct	1261 1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
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Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGCTTG	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGTTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŢŢŢĠĠĠĠĠĠĊŢĊĠŢĠĠŢĊĊĠĠĠĠĠĊĠĊĠĠĠĠĊĠĊĠŢĠŢĊŢŢĠŢĠŢ	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	ccttcctcgtgttcttctgctttgcgtggtatctgaagggtaggtgggtg	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGTGCCTCAGCGGG	2760
Sbjct	2701	tctacgccctctacgggatgtggcctctcctcctgctcctgctgctgcctcagcggg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
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Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880

Sbjct	2821		2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGCCCCCCTCAACGTCC	2940
Sbjct	2881		2940
Query	2941	aggggaaCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941		3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
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Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTGTGTGTATAACCATCTCGCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
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Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCCCGTAGGG	3360 3420
Query Sbjct	3361 3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
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Sbjct	3421		3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481		3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGACGTATACCAATGTGGATCAAG	3660
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Sbjct	3661	ACCTCGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCT	3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	GTCCGCTGTTGTGCCCCACGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900 3960
Query Sbjct	3901 3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Zuer À		COURT TO THE COURT OF THE COURT	1020

Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	ĊŤĠĠĊŔĠĊĊĊŔŤĊŔĊĠŤŔĊŤĊĊŔĊĊŤŔĊĠĠĊŔŔĠŤŤĊĊŤŤĠĊĊĠŔĊĠĊĊĠĠĠŤĠĊŤĊŔĠ	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Sbjct	4321	CGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCACCGGAGAGTCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441	TGTCCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
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Sbjct	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160

Sbjct	5101		5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161		5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221		5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGÁAGAGTGCTCTCÁGCACTTÁCCGTÁCATCGÁGCAAGGGÁTGATGCTCGCTGÁGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTTGGGCGAAGCACATGTGGA	5640
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Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701 5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760 5760
Sbjct Query	5761	TCCTCTTCAACATATTqqqqqqTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCC-CATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821		5879
Query	5880	GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880		5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Sbjct	5940		5999
Query	6000	CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT	6059
Sbjct	6000		6059
Query	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Sbjct	6060	GGCCCGGGCGAGGGGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Query	6120	AACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6179
Sbjct	6120	AACCATGTTTCCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6179
Query	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299

Sbjct	6240		6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATT	6359
Sbjct	6300		6359
Query	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360		6419
Query	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480	grcggrcctaggacctgcaagaacatgrggagrgggacgrtcrrcarraargccracacc	6539
Query	6540	ACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540	ACGGGCCCCTGTACTCCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Query	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600	ĠĊĀĠĀĠĀĀTĀĊĠŦĠĠĀĠĀTĀĀĠĠĊĠĠĠŦĠĠĠĠĀĊŦŤĊĊĀĊŦĀĊĠŦĀŦĊĠĠĠĊĀŦĠĀĊŦ	6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAC	6719
Sbjct	6660	ACTGACAATCTCAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAC	6719
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Query	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6899
Sbjct	6840 6900	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6899 6959
Query Sbjct	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
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Sbjct	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
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Query	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
Sbjct	7800	ĠŤĠĊŤĊĂĂĠĠĂĠĠŤĊŔĂĂĠĊĀĠĊĠĠĊĠŤĊĂĂĂĀĠŤĠĂĀĠĠĊŤĂĂĊŤŤĠĊŤĂŤĊĊĠŤĀĠĀĠ	7859
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Sbjct	7980	CTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGC	8039 8099
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Sbjct
     9240
         TTGTCCGGCTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCAT
                                                         9299
     9300
         GCCCGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTAC
                                                         9359
Query
         Sbjct
     9300
                                                         9359
         CTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCC-GGCCTCTTAAGCCATTTCCT
Query
     9360
                                                       9416
          9360
         CTCCTCCCAACCGATGAAGATTGGGCTAACCACTCCAGGCCAAT-AGGCCATTCCCT
                                                       9416
Sbjct
>gb|AR640519.1|
            Sequence 13 from patent US 6858590
Length=9416
Score = 1.688e+04 bits (9140), Expect = 0.0 Identities = 9326/9418 (99%), Gaps = 4/9418 (0%)
Strand=Plus/Plus
         GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
    1
                                                         60
Query
          GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
     1
                                                         60
Sbjct
Query
     61
         TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
                                                         120
         Sbjct
                                                         120
         COCCOTCCCGGGAGACCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
Query
     121
                                                         180
```

Sbjct	121	CCCCCTCCGGGAGACCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG	180
Query	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Sbjct	181	GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	ctcaaagaaaaaccaaacgtaacaccaaccgtcgcccacaggacgtcaagttcccgggtg	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	ĠĊĠĠŦĊĀĠĀŦĊĠŦŦĠĠŦĠĠĀĠŦŦŦĀĊŦŦĠŦŦĠĊĊĠĊĠĊĀĠĠĠĠĊĊĊŦĀĠĀŦŦĠĠĠŦĠŦĠĊ	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	ĠĊĠĊĠĀĊĠĀĠĠĀĀĠĀĊŦŦĊĊĠĀĠĊĠŦĊĠĊĀĀĊĊŦĊĠĀĠĠŦĀĠĀĊĠŦĊĀĠĊĊŦĀŦĊĊĊĀ	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTGTTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1080 1140
Query	1081		
Sbjct	1081	CCACCAGGGACGCCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGTTGTCG	1140 1200
Query	1141 1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TIGGICAACIGIIIACCIICICICCCAGGCGCACIGGACGCAAGACIGCAAIIGII	1260
Query	1201	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
⊘пет	1701	TOTAL TRANSPORTATION OF THE PROPERTY OF THE PR	1020

Ouery         1321         CCCCTAGGGCAGGGTTGGTGGTAGCTCAGGTGCTCCGAATCCCACAAGCCATCATGGACA         1380           Sbjet         1321         CCCCTAGGGCAGGGTTGGTGGTTAGCTCAGGTGCTCCGCAATCCCACAAGCCATCATGGACA         1380           Query         1381         TGATCGCTGGTGCTCACTGGGGGGCTTAGCGTATTTCTCCATGGTGGGGG         1440           Sbjet         1381         TGATCGCTGGGCCCACTGGGGAGTCCTGGGGGGCATTAGCGTATTTCCCATGGTGGGGG         1440           Objet         1441         ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTATTTCCCGGCGTCGACGCGGAAACCCAC         1500           Sbjet         1501         TCACCGGGGGAAATCCCGCCCCACACGGCTGGACTGGGCTTGGTGGCCCTTATACACAGGG         1560           Query         1501         TCACCGGGGGAAATCCCGGCCCGACCACGGCTGGGCTTGTTGTGTCCCTTATACACAGGGC         1560           Sbjet         1501         TCACCGGGGGAAATCCCAACTGATCAACACCAACGGCTGGCT	Sbjct	1261		1320
Sbjet         1321         CCCCTGGGGGAGGGTGTGTGTGTGTGTGTGTGTGTGTGTG				
Query         1381         TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA         144           Sbjet         1381         TGATCGCTGGGGCCCACTGGGGAGTCCTGGCGGGCATAAGTATTTCTCCATGGTGGGGA         1440           Query         1441         ACTGGGCGAAGGTCCTGGTAGTTGCTGGCTGCTATTTGCCGGCGTGACGCGGAAACCCACG         1500           Sbjet         1441         ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCTCGACGCGGAAACCCACG         1500           Query         1501         TCACCGGGGGAAATCCGACCGCCACCACGCTGGCTTGTTGTGCTCCTTACACCAGGCG         1560           Sbjet         1501         TCACCGGGGGAAATCCAACTGATCAACACACACACGCAGTTGGCACATCAATCA	_			
Sbjet         1381         TGATCGCTGGCGCCACTGGGGAGTCTGGTGGGGATAAGGTTTTTCTCCATGTGGGGA         1440           Query         1441         ACTGGGCGAAGGTCCTGGTAGTGTGCTGGTGTATTTGCCGGCGTCGACCAGGAACCCACG         1500           Sbjet         1441         ACTGGGCGAAGGTCCTGGTAGTGTGTGTATTTGCCGGCGTCGACCACGAGGAACCCACG         1500           Sbjet         1501         TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGCTTGTTGGTCTCCTTACACCAGGGG         1560           Sbjet         1501         TCACCGGGGGAAATGCCGGCCGACCACGGCTGGCTTGTTGGTCTCCTTACACCAGGGG         1560           Query         1561         CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT         1620           Sbjet         1561         CCAAGCAGAACATCCAACTGATCAACACCACAGGCAGTTGGCACACTACAATAGCACGGCCT         1620           Sbjet         1521         TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT         1680           Sbjet         1621         TGAACTGCAATGAAAGCCTTAACACCGGGTTGGTTAGCAGGGCTCTTCTATCAACACAAAT         1680           Query         1631         TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCTGCCAGAGCGCCTTACCGAATTTTTCACCTTTACAGTTATGCATTATGCCAACGGAGCGCCTTACCGATTTCACGTTTTTCCCT         1740           Sbjet         1741         AGGGCTGGGGGTCCTATCAGTTTATGCCAACGGAGCGCCTCTACCGGATACGGACCCCCTACTGT         1800           Sbjet         1801         GCACTACCCTCCAAGACCTTTCAGTTATGCCAACGGAGCGCCCTCACCGGAATGCACCCCGTGTTTCAGTTATGCCAAACGGCCCCGCGTTATGTCTCTACAGTTCAGTTACACC	_			
Sbjet         1441         ACTGGGGGAAAGTCCCGGTAGTGGTGGTGGTGTGTGTGGTGGGGGGGG	Sbjct	1381		1440
Sbjet         1441         ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCACG         1500           Query         1501         TCACCGGGGGAATGCCGGCGCGCACCACGGCTGGGCTTGTTGGTCTTCCTTACACCAGGCG         1560           Sbjet         1501         TCACCGGGGGAATGCCAGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG         1560           Query         1561         CCAAGCAGAACATCCAACTGATCAACACACGGCAGTTGGCACATCAATAGCACGGCCT         1620           Sbjet         1561         CCAAGCAGAACATCCAACTGATCAACACGGCAGTTGCCACATCAATAGCACGGCCT         1620           Query         1621         TGAATTGCAATGAAACCCTTAACACCGGCTGGTTAGCAGTGCCAATATACAACACAAT         1680           Sbjet         1621         TGAAATGCAATGAAACCCTTAACACCGGCTGGTTAGCGAGGCCTTATCACGATTTTGCC         1740           Sbjet         1681         TCAACTCTTCAGGCTGCCTGAGAGGTTGGCCAGCGCCTTACCGATTTTGCC         1740           Sbjet         1681         TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGCAGCGCCTTACCGATTTTGCC         1740           Query         1741         ACGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGACCCCCAACGCCCTACTCCT         1800           Sbjet         1801         GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCAGCAGAACGACCCCCAACGCCCCTACTCCT         1800           Query         1861         ATTGCTTCACCTCCAGCCCCGTGGGTGTTGTGCCCAGAACGACCTGTGTGGCCCCCAGTATCT         1860           Query         1861         ATTGCTTCACCTCAGC	Query	1441		1500
Sbjet 1501 TCACCGGGGGAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTACCAGGCCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGGCACATCAATAGCACGGCCT 1620  Sbjet 1561 CCAAGCAGAACATCCAACTGATCAACCACCAACGGCAGTTGGCACATCAATAGCACGGCCT 1620  Query 1621 TGAACTGCAATGAAAGCCTTAACAACCGGCAGTTGGCACATCAATAGCACGGCCT 1680  Sbjet 1621 TGAACTGCAATGAAAGCCTTAACAACCGGCTGTTAGCAAGGGCCTTTATCAACCACAAAT 1680  Sbjet 1621 TGAACTGCAATGAAAGCCTTAACAACCGGCTGGTTAGCAAGGGCCTTTATCAACCACAAAT 1680  Query 1681 TCAACCTTCAGGCTGTCCTGAGAGGTTGGCCAGCGTACCGATTTTGCCC 1740  Sbjet 1681 TCAACCTTCTCAGGCTGTCCTGAGAGGTTTGGCCAGCGACGGCCTTACCGATTTTGCCC 1740  Sbjet 1741 AGGGCTGGGGTCCTATCAGTTATGGCCAGCGAGGCCTTACCGATTTTGCCC 1740  Sbjet 1741 AGGGCTGGGGTCCTATCAGTTATGGCCACGAGGGCCTCGACGAACGCCCTACTGCT 1800  Query 1801 GCCACTACCCTCCAAGACCTTGTGGCAATGTGGCCAGCAAAGAGCCCCCTACTGCT 1800  Sbjet 1801 GGCACTACCCTCCAAGACCTTGTGGCAATGTGCCCCCAAAGAGACGCCCCTACTGCT 1800  Query 1861 ATTGCTTCACTCCCAGCCCGTGGGGAGTGGCCCGAAAGAGCCCCTACTGCT 1920  Query 1921 ACAGCTGGGGTCCAATGGCATTGTGGCCACAAAGAGCGCCGTACGCCT 1920  Query 1921 ACAGCTGGGGTGCAATGGATGGCATTGTGCCCCCAAAGAGCCCGCTGGCCTACTGCT 1920  Query 1921 ACAGCTGGGGTGCAATGATATGGCAACGACGACGACGACGACGCCCCTACTGCT 1920  Query 1921 ACAGCTGGGGTGCAATGATATGAGAACGACGAACGACCACCCCTCG 1980  Sbjet 1921 ACAGCTGGGGTGCAAATGATACAGGAATGCTTCCTCCTAACAACCACGGCCCCCCACCCTG 1980  Query 1981 GCAATTGGTTCGGTTGTACCTGGATGATCTCTCCTCTAACAACCACAGGCCCCCCCC	Sbjct	1441		1500
Sbjet 1501 TCACCGGGGGAAATGCCGCCGCACCACGGCTGGCTTGTTGTCTCTTACACCAGGCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCATTGGCACATCAATAGCACGGCCT 1620  Not be started to the started to th	Query	1501		1560
Sbjet 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT 1620  Query 1621 TGAATTGCAATGAAAGCCTTAACACCAGCGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT 1680  Sbjet 1621 TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT 1680  Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCACGCCTTACCGATTTCCCC 1740  Sbjet 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCCCTTACCGATTTTCCCC 1740  Query 1741 AGGGCTGGGGTCCTACAGATTATGCCAACGGAGGCCTTACCGATTTTCCCC 1740  Sbjet 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTTACCGATTTTCCCC 1800  Query 1801 GGCACTACCCTCCAAGACCTTGTGGCAACGGAAGCGCCCTACTGCT 1800  Query 1801 GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCAAAAGAGCGCCCTACTGCT 1800  Query 1801 GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGAAAGAGCGCCCTACTGCT 1800  Query 1861 ATTGCTTCACTCCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGGGCCCGGTAT 1860  Query 1810 GGCACTACCCTCCAAGACCTTGTGGGATTGTGCCCGGAAAGAGCGTGTGTGGCCCGGTAT 1860  Query 1921 ACAGCTGGGGTGCAACACGCCCGTGGGGGAAGAAGACGCCCAACACGCCCCTACTGCT 1920  Query 1921 ACAGCTGGGGTGCAAATGATACGGATTGTCCCCGCAAAGAGCGTGGGGGCGCCCTACCT 1920  Query 1921 ACAGCTGGGGTGCAAATGATACGGATGTCTCGTCCTTAACAACACCAGGCCACCGCTGG 1980  Sbjet 1921 ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG 1980  Query 1981 GCAATTGGTTCGGTTGTACCTGGATGAACTCTACTGATTAACAACACCAGGCCACCGCTGG 1980  Query 2041 CCCCTTGTGTCATCGGATGGATGACTCAACTGGATTCACCAAAGTGGGAGCCC  Query 2041 CCCCTTGTGTCATCGGATGGATCAACTGGATTCACCAAAGTGGGAGCCC  Query 2041 CCCCTTGTGTCATCGGATGGATCAACTGGATTCACCAAAGTGGAGGGACCC  Query 2101 GCAAACATCCGGAAGGCCACAATACTCTCGGTGGGGGCCCCCACCGTGGT 2160  Sbjet 2041 CCCCTTGTGTCATCGGAGGGGGGAACAACACCTTGCTCTGCCCCACCTGATTGCTCC 2100  Query 2101 GCAAACATCCGGAAGGCCACATACTCTCGGTGGGGGCCCCCACGGTTGCCCACTGATTACCCCAAGGT  Sbjet 2101 GCAAAATACCGGAAGGCCACATACTCTCGGTGGGGCCCCCCACTGATTACACCCAAGGT  Sbjet 2101 GCAAAATACCGGAAGGCCACATACTCTCGGTGGGGGCCCCCCCGGTCCCACTGATTACACCCAAGGT  Sbjet 2101 GCAAAAAATCCGGAAGGCCACAACACCCTTGCTCTGACCCACTGATTACACCCAAGGT  Sbjet 2101 GCAAACATCCCGGATGGGGGGGGGGCACAACACACCCTTGATTACACCCAAGGT  Sbjet 2101 GCAAAATACCGGAAGGCCACAACACCCTTGTTTGCCCCACCTGAATTACACCCAAGGT  Sbj	Sbjct	1501		1560
Sbjet 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCT 1620  Query 1621 TGAATTGCAATGAAAGCCTTAACACCAGGCTGGTTAGCAGGGCTCTTCTATCAACACACAAAT 1680  LIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Query	1561		1620
Sbjet 1621 TCAACTCTCAGGCTGTCTGAGAGGCTGGCCGCCGCCGCCGTACCCGTTGCCGAGGCCCTTACCGATTTTGCCC 1740 Sbjet 1681 TCAACTCTTCAGGCTGTCTGAGAGGTTGGCCAGCGCCTTACCGATTTTGCCC 1740 Query 1741 AGGGCTGGGGTCCTACAGGTTTGCCCAGCGCCTTACCGATTTTTGCCC 1740 Sbjet 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAACGGCCTGACCGACGCCTTACCGATTTTTGCCC 1800 Query 1801 GGCACTACCCTCAAGACCTTGTGGCAACGGCCTCGACGAACGCCCCTACTGCT 1800 Sbjet 1801 GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAAGAGCGCCCTACTGCT 1800 Query 1801 GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAAGAGCGTGTGTGGCCCGGTAT 1860 Query 1861 ATTGCTTCACTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT 1860 Query 1921 ACAGCTGGGGTGCAAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT 1860 Query 1921 ACAGCTGGGGTGCAAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT 1860 Query 1921 ACAGCTGGGGTGCAAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGGCCCCTACCT 1920 Query 1921 ACAGCTGGGGTGCAAAGAACACCCGTGGGAAGACGCGCACCGCCGCGCCTACCT 1920 Query 1981 GCAATTGGTTCGGTTGTACCTGGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG 1980 Query 2041 CCCCTTGTGCAAATGATACGAATGTTTCGTCCTTAACAACACCAAGGCCACCGCTGG 1980 Sbjet 2041 CCCCTTGTGTCATCTGGATGAACACAACACCTTGCTCTTAACAACACCAAGGCCACCGCTGC 2040 Query 2041 CCCCTTGTGTCATCGGAGGGGTGGGAAACACCCTTGCTCTTAACAACACCAAAGTGTGCGGAGCCC 2040 Query 2041 CCCCTTGTGTCATCGGAGGGGTGGGAACAACACCTTGCTCTCAACAACACCAAAGTGTGCGGAGCCC 2040 Query 2041 CCCCTTGTGTCATCGGAGGGGTGGGAACAACACCTTGCTCTCAACAAACTGGATTCACCAAAAGTGTGCGGAGCCC 2040 Query 2101 GCAAATTGGTTCGGTTGTACCTGGATGAACACACCAGGCCCCCACTGATTGCTTC 2100 Sbjet 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTC 2100 Query 2101 GCAAATATCCGGAAGCCAATACTCTCGGTGGGCGCCCCGGTCCCTGGATTACACCCAGGT 2160 Query 2101 GCAAACATCCGGAAGCCACAACACACCTTGCTCTGCCCCACTGATTGCTTC 2100 Sbjet 2101 GCAAACATCCGGAAGCCACATACCTCTGGTCGGGCCCCGGTCCCAGGATTACACCCAGGT 2160 Query 2121 TCAAAGCTAAGCGATTAGGCTTTGGCACTATCCTTGTACCACACAGGCTCCAACCGGATTACACCCAGGT 2160 Sbjet 2101 GCAAGGCACAACCCGGATTAGGCTTTGGCACTATCCTTGTACCACACAGGCTCCAACCGACTGAACCACGACTGCAACGGCCTGAACCGGACGGCCCGCTCCAACTGGA 2280 Sbjet 2101 GCAAGGCACAGGCTGGAACGGCCTGAACGGCCTGCAACTGGA 2280 Sbjet 2221	Sbjct	1561		1620
Query         1681         TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC         1740           Sbjet         1681         TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC         1740           Query         1741         AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCAACGACGACGCCCTACTGCT         1800           Sbjet         1741         AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT         1800           Query         1801         GGCACTACCCTCCAAGACCTTGTGGCCATTGTGCCCGCAAAGAGCGTGTGGCCCGGTAT         1860           Sbjet         1801         GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGGGCCCGGTAT         1860           Query         1861         ATTGCTTCACTCCCAGCCCCGTGGTGGGGAACGACCGACAGGTCGGGCGCCCCACCT         1920           Sbjet         1861         ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	Query	1621		1680
Sbjet 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCCGCCGACGCCTTACCGATTTGCCC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTTACCGATTTGCCC 1800  Sbjet 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT 1800  Query 1801 GGCACTACCCTCCAAGACCTTGTGCCATTGCCCGACGAAGCGCCCCTACTGCT 1800  Sbjet 1801 GGCACTACCCTCCAAGACCTTGTGGCATTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT 1860  Query 1861 ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	
Query1741AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGGGGCCCTGACGAACGCCCCTACTGCT IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	_			
Sbjet 1741 AGGGCTGGGTCCTATCAGTTATGCCAACGGAAGGCCCCTCGACGCCTCTGCT 1800  Query 1801 GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCAAAGAGGCGTGTGTGGCCCGGTAT 1860  Sbjet 1801 GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGGCGTGTGTGGCCCGGTAT 1860  Query 1861 ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC				
Query         1801         GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT         1860           Sbjet         1801         GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT         1860           Query         1861         ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	_			
Sbjet 1801 GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGGGGGGGG	_			
Query1861ATTGCTTCACTCCCAGCCCGTGGTGGTGGGAACGACCGAC	_			
Sbjet 1861 ATTGCTTCACTCCCAGCCCGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCT 1920  Query 1921 ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG 1980  Sbjet 1921 ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG 1980  Query 1981 GCAATTGGTTCGGTTGTACCTGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG 1980  Sbjet 1981 GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC 2040  Query 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTCGCCCACTGATTGCTTCC 2100  Query 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Query 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCAGGT 2160  Sbjet 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGT 2160  Query 2161 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGT 2160  Query 2161 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGT 2160  Query 2161 GCAATGGTCGACCGGTATAGGCTTTGGCACTATCCTTGTACCACTAATTACACCATAT 2220  Query 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGCCTGGAACCCATAT 2220  Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCCAGGCTGGAACCGGCCTGCAACTGGA 2280  Query 2281 CGCGGGCCGAACGCTGTGATCTGGAAGACACAGGGTCGAACCGGACTGCAACTGGA 2280  Query 2281 CGCGGGCCGAACGCTGTGATCTGGAAGACAGGGACAGGCTCGAGCCCGTTGCTGC 2340				
Sbjet 1921 ACAGCTGGGTTGTACCTGGATGACTCAACTGGATTCACCAAAGTGTGCGGAGCGC 2040  Query 1981 GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC 2040  Sbjet 1981 GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC 2040  Query 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Sbjet 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Query 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGTCCCTGGATTACACCCAGGT 2160  Sbjet 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGT 2160  Query 2161 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCCGGTCCCAGGATTACACCCAGGT 2160  Query 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Sbjet 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Sbjet 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGTCGAACGGACCAGCCTGCAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGTCCGAGCTCAGCCCGTTGCTGC 2340	_	1861		1920
Sbjet 1921 ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG 1980  Query 1981 GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC 2040  Sbjet 1981 GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC 2040  Query 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Sbjet 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Query 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCACTGATTGCTTCC 2100  Sbjet 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT 2160  Query 2161 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT 2160  Query 2161 GCAAGTTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Sbjet 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGCTCGAGCTCGAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGCCCGGAGCTCGAACTGGA 2280	Query	1921		1980
Sbjet 1981 GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC 2040  Query 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Sbjet 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Query 2101 GCAAACATCCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Sbjet 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT 2160  Sbjet 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT 2160  Query 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Sbjet 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Sbjet 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGTCCGAGCTCAGCCCGTTGCTGC 2340	Sbjct	1921		1980
Sbjet 1981 GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC 2040  Query 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Sbjet 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Query 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGT 2160  Sbjet 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCCGGTCCCAGGATTACACCCAGGT 2160  Query 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCCATAT 2220  Sbjet 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGTCGAGCACAGGCTGCAACTGGA 2280  Sbjet 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGCAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGCTCGAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGCTCGAACTGGA 2280	Query	1981		2040
Sbjct 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Query 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT 2160  Sbjct 2101 GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT 2160  Query 2161 GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCCAGGATTACACCCAGGT 2160  Query 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Sbjct 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Sbjct 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGCTCGAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGCTCGAGCTCGCCCGTTGCTGC 2340	Sbjct	1981		2040
Sbjct 2041 CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC 2100  Query 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT 2160  Sbjct 2101 GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT 2160  Query 2161 GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCATAT 2220  Sbjct 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Query 2221 TCAAAGTCAGGATGTACCGGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Sbjct 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Query 2221 CCACAGGTCAGCTGTGATCGTGGGAGGGGTCGAGCACGGCCTGCAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGTCCGAGCTCAGCCCGTTGCTGC 2340	Query	2041		2100
Sbjct 2101 GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT 2160  Query 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Sbjct 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Query 2221 TCAAAGTCAGGATGTACCGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Sbjct 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Query 2221 CCACAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGCTCGAGCTCGCCCGTTGCTGC 2340	Sbjct	2041		2100
Query2161GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT2220Sbjct2161GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT2220Query2221TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA2280Sbjct2221TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA2280Query2221TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA2280Query2281CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC2340	_			
Sbjct 2161 GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT 2220  Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCAGGCTGGAAGCGGCCTGCAACTGGA 2280  Sbjct 2221 TCAAAGTCAGGATGTACGTGGGAGGGTCGAGCAGGCTGGAAGCGGCCTGCAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGCTCGAGCTCAGCCCGTTGCTGC 2340	_			
Query 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280 Sbjct 2221 TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA 2280 Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC 2340	_			
Sbjct 2221 TCAAAGTCAGGATGTACGTGGGAGGGTCGAGCAGGCTGGAAGCGGCCTGCAACTGGA 2280  Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC 2340	_			
Query 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC 2340	_			
	_			
Sbjct 2281 CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC 2340	_			
Query 2341 TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA 2400	_			
Sbjct 2341 TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCA 2400	_			
Query 2401 CCGGCCTCATCCACCTCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT 2460	_			

Sbjct	2401		2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461		2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521		2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581		2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGTGCCTCAGCGGG	2760
Sbjct	2701	tctacgccctctacgggatgtggcctctcctcctgctcctgctgctgccttaccggg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTGCGGGGGTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCC	2940 3000
Query Sbjct	2941 2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121		3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TĠĠĊĊĠŦĠĠĊŦĠŦĠĠAAĊĊAĠŦĊĠŦĊŦŦĊŦĊĊĊĠAAŦĠĠAGAĊĊAAĠĊŦĊAŦĊAĊĠŦĠĠĠ	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Sbjct	3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480
Query	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540 3540
Sbjct	3481 3541	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC  AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Query	つつヸエ	AADDOODDOODOODOOTODIATDDOOTANOTANOTOODOOTOOTTOOAAA	2000

Sbjct	3541		3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		3660
Query	3661	ACCTTGTGGGCCGGCCCCCCCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900
Sbjct	3841	gtccgctgttgtgccccacgggacacgccgtgggcctattcagggccgcggtgtgcaccc	3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901	gtggagtggctaaggcggtggactttatccctgtggagaacctagagacaaccatgagat	3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCA	4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321 4381	CGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380 4440
Query	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Sbjct Query	4441	TGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621		4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
~1			

Sbjct	4681		4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741		4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801		4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Sbjct	4921	GGTATGAGCTCACGCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TÄĞCĞTÄCCAÄĞCCACCĞTĞTĞCĞCTÄĞĞĞCTCAAĞCCCCTCCCCATCĞTĞĞĞACCAĞA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGCGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640 5640
Sbjct	5581		
Query Sbjct	5641 5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700 5700
_	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Query			5760
Sbjct	5701 5761	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5/60
Query		TCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGGTGGCTGGCCCAGCTCGCCGCCCCCGGTGCCGCTA CTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCCCATCGGCAGCGTTGGACTGGGGAAG	5820 5879
Query	5821	JAADUUU1JAUU11UJUAJUUJ1AJ-JUJJUUJUU1JUA1JJUU1JULIUULIULILILILIJUULJ	2019

Sbjct	5821	CCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCGCAC-TCGACAGCGTTGGACTGGGGAAG	5879
Query	5880	GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880	GTCCTCGTGGACATTCTTGCAGGCTATGGCGCGGGGCGTGGCGGGAGCTCTTGTGGCATTC	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Query	6000	CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT	6059
Sbjct	6000	CTCTCACCTGGAGCCCTTGCAGTCGGTGTGTCTTTGCATCAATACTGCGCCGGCGTGTT	6059
Query	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Sbjct	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Query	6120	AACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6179
Sbjct	6120	AACCATGTTTCCCCCACACACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6179
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Query	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
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Sbjct	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGACGTATACCAATGTGGATCAAG	3660
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Sbjct	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
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Sbjct	4621	ĊĠĂĊĊĀĠĊĠĠĊĠĀŦĠŦŦĠŦĊĠŦĠŦĠŦĊĠĀĊĠĀŦĠĊŦĊŦĊĀŦĠĀĊŦĠĠĊŦŦŦĀĊĊĠĠĊĠ	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
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Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
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Query Sbjct	4921 4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980 4980
Query	4981	GGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
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Sbjct	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
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z y			

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Sbjct	661	GGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
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Sbjct	781	ĊŢĠĊĊĀĠĠĠĊĊĊŢĠĠĊĠĊĀŢĠĠĊĠŢĊĊĠĠĠŢŢĊŢĠĠĀĀĠĀĊĠĠĊĠŢĠĀĀĊŢĀŢĠĊĀĀĊĀĠ	840
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Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Query Sbjct	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140 1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGTGTCTTTCTT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201		1260
Querv	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
- Sbjct	1261		1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321		1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381		1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441		1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620

Sbjct	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAGCACAAAT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	ggcactaccctccaagaccttgtggcattgtgcccgcaaagagcgtgtgtggcccggtat	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	acagctggggtgcaaatgatacggatgtcttcgtccttaacaacaccaggccaccgctgg	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ĠĊĀĀŤŤĠĠŤŤĊĠĠŤŤĠŤĂĊĊŤĠĠĀŤĠĀĀĊŤĊĀĊŤĠĠĀŤŤĊĀĊĊĀĀĀĠŤĠŤĠĊĠĠĀĠĊĠĊ	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAATATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCAGGATTACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGTTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCATGGTCTTGTGT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCCTCAGCGGG	2760

Ch d ob	2701		2760
Sbjct Query	2761	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCCTCAGCGGG  CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821		2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTGGGGGGGTCAACGTCC	2940
~ - Sbjct	2881		2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTG	3000
Sbjct	2941	ÎÎÎÎÎÎÎÎÎÎÎÎÎ	3000
Query	3001	ACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGC	3060
Sbjct	3001		3060
Query	3061	TTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGA	3120
Sbjct	3061		3120
Query	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCA	3180
Sbjct	3121	AGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGGCGCTTACTGGCA	3180
Query	3181	CCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Sbjct	3181	CCTGTGTGTATAACCATCTCGCTCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATC	3240
Query	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Sbjct	3241	TGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGG	3300
Query	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Sbjct	3301	GGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGG	3360
Query	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Sbjct	3361	GCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGG	3420
Query Sbjct	3421 3421	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC	3480 3480
Query	3481	CGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCC TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Sbjct	3481	TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC  TGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCC	3540
Query	3541	AAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAA	3600
Sbjct	3541		3600
Query	3601	CGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAG	3660
Sbjct	3601		3660
Query	3661	ACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCT	3720
Sbjct	3661		3720
Query	3721	CCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTG	3780
Sbjct	3721		3780
Query	3781	ATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Sbjct	3781	ATAGCAGGGGTAGCCTGCTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGG	3840
Query	3841	GTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCC	3900

Sbjct	3841		3900
Query	3901	GTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGAT	3960
Sbjct	3901		3960
Query	3961	CCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCC	4020
Sbjct	3961		4020
Query	4021	ACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCC	4080
Sbjct	4021		4080
Query	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTT	4140
Sbjct	4081	AGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTT	4140
Query	4141	ACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCA	4200
Sbjct	4141	acatgrccaaggcccatggggttgatcctaatatcaggaccggggtgagaacaattacca	4200
Query	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAG	4260
Sbjct	4201	CTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCCGGGTGCTCAG	4260
Query	4261	GAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Sbjct	4261	GAGGTGCTTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4321	TGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGCGAGACTGGTTGTGCTCG	4380
Sbjct	4321 4381	CGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4380 4440
Query Sbjct	4381	CCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTC	4440
Query	4441	TGTCCACCGCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGG	4500
Sbjct	4441		4500
Query	4501	GGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGC	4560
Sbjct	4501		4560
Query	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Sbjct	4561	TGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Sbjct	4621	CGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCG	4680
Query	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTG	4740
Sbjct	4681	ACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTTAGCCTTG	4740
Query	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Sbjct	4741	ACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAAC	4800
Query	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Sbjct	4801	GCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGC	4860
Query	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Sbjct	4861	GCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTT	4920
Query	4921 4921	GGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	4980 4980
Sbjct Query	4921	GGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGG	5040
Zuery	1 J U L	CCCTTCCCCTCTCCCTTCTTTTTTTTTTTTTTTTTTTT	J U 4 U

Sbjct	4981	GGCTTCCCGTGTGCCAGGACCATCTTGGATTTTGGGAGGGCGTCTTTACGGGCCTCACTC	5040
Query	5041	ATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Sbjct	5041	ATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGG	5100
Query	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Sbjct	5101	TAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGA	5160
Query	5161	TGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Sbjct	5161	TGCGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACA	5220
Query	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Sbjct	5221	GACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGA	5280
Query	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Sbjct	5281	CATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCC	5340
Query	5341	TGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCG	5400
Sbjct	5341	TĠĠĊŢĠĊŢĊŢĠĠĊĠĊĠŢĂŢŢĠĊĊŢĠŢĊAAĊĀĠĠĊŢĠĊŢĠĠŢĊĀŢĀĠŢĠĠĊĀĠĠĀŢĊĠ	5400
Query	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGATG	5460
Sbjct	5401	TCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATG	5460
Query	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Sbjct	5461	AGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGC	5520
Query	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Sbjct	5521	AGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCA	5580
Query	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Sbjct	5581	CCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGA	5640
Query	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Sbjct	5641	ATTTCATCAGTGGGATACAATACTTGGCGGGGCCTGTCAACGCTGCCTGGTAACCCCGCCA	5700
Query	5701	TTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCC	5760
Sbjct	5701	TTĠĊTTĊATTĠATĠĠĊTTTTAĊAĠĊTĠĊĊĠTĊAĊĊAĠĊĊĊAĊTAAĊĊAĊŦĠĠĊĊAAAAĊĊĊ	5760
Query	5761	TCCTCTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTA	5820
Sbjct	5761	TCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTA	5820
Query	5821	CTGCCTTTGTGGGTGCTGGCCTGGCGCGCCCCCCATCGGCAGCGTTGGACTGGGGAAG	5879
Sbjct	5821	ĊĊĠĊĊŤŤŢĠŢĠĠĊĠĊŢĠĠĊŢŦĀĠĊŢĠĠĊĠĊĠĊĀĊŢŢĊĠĀĊĀĠĊĠŤŢĠĠĀĊŢĠĠĠĀĀĠ	5879
Query	5880	GTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTC	5939
Sbjct	5880	grccrcgrggacarrcrrgcaggcrarggcgcgggcgrggcgggagcrcrrgrggcarrc	5939
Query	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Sbjct	5940	AAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATC	5999
Query	6000	CTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTT	6059
Sbjct	6000	CTCTCACCTGGAGCCCTTGCAGTCGGTGTGGTCTTTGCATCAATACTGCGCCGGCGTGTT	6059
Query	6060	GGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Sbjct	6060	GGCCCGGGCGAGGGGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGG	6119
Query	6120	AACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTGCC	6179

Sbjct	6120		6179
Query	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Sbjct	6180	ATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCG	6239
Query	6240	GAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAG	6299
Sbjct	6240		6299
Query	6300	GTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATT	6359
Sbjct	6300		6359
Query	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Sbjct	6360	CCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCAC	6419
Query	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Sbjct	6420	ACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATC	6479
Query	6480	GTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACC	6539
Sbjct	6480	GTCGGTCCTAGGACCTGCAAGAACATGTGGAGTGGGACGTTCTTCATTAATGCCTACACC	6539
Query	6540	ACGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCT	6599
Sbjct	6540	acgggccctgtactccccttcctgcgccgaactataagttcgcgctgtggagggtgtct	6599
Query	6600	GCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACT	6659
Sbjct	6600	gcagaggaatacgtggagataaggcgggtggggacttccactacgtatcgggcatgact	6659
Query	6660	ACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGAC	6719
Sbjct	6660	actgacaatctcaaatgcccgtgccagatcccatcgcccgaatttttcacagaattggac	6719
Query	6720	GGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Sbjct	6720	GGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCA	6779
Query	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Sbjct	6780	TTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCG	6839
Query	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6899
Sbjct	6840	GACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6899
Query	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Sbjct	6900	GGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTG	6959
Query	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Sbjct	6960	TCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTC	7019
Query	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Sbjct	7020	ATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCA	7079
Query	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Sbjct	7080	GAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGG	7139
Query	7140	GAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCC	7199
Sbjct	7140	GAGGTCTCCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCCAGCCCTGCCC	7199
Query	7200	GTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Sbjct	7200	GTCTGGGCGCGGCCGGACTACAACCCCCTGCTAGTAGAGACGTGGAAAAAGCCTGACTAC	7259
Query	7260	GAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCG	7319

Sbjct	7260		7319
Query	7320	CCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAG	7379
Sbjct	7320	CCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTA	7379
Query	7380	CTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACA	7439
Sbjct	7380	CTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACA	7439
Query	7440	ACATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACTTCCGACGTTGAGTCCTATTCT	7499
Sbjct	7440	ACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCT	7499
Query	7500	TCCATGeecocotGGAGGGGGGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCG	7559
Sbjct	7500	TCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCG	7559
Query	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGG	7619
Sbjct	7560	ACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGG	7619
Query	7620	ACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTG	7679
Sbjct	7620	ACAGGCGCACTCGTCACCCCGTGCGCTGCGGAGGAACAAAACTGCCCATCAACGCACTG	7679
Query	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Sbjct	7680	AGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGC	7739
Query	7740	CAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Sbjct	7740	CAAAGGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGAC	7799
Query	7800	GTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAG	7859
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Query	7860	GAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAA	7919 7919
Sbjct Query	7860 7920	GAAGCTTGCAGCCTGGCGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAA GACGTCCGTTGCCATGCCA	7919
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Query	8040	GTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGC	8099
Sbjct	8040		8099
Query	8100	GTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTG	8159
Sbjct	8100		8159
Query	8160	ATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAA	8219
Sbjct	8160		8219
Query	8220	GCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCC	8279
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Length=9401
Score = 1.687e+04 bits (9137), Expect = 0.0 Identities = 9318/9406 (99%), Gaps = 10/9406 (0%)
Strand=Plus/Plus
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Query 1

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Query	60	GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA	119
Sbjct	60		119
Query	120	cccccccCCCGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA	179
Sbjct	120		179
Query	180	GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	239
Sbjct	180	GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC	239
Query	240	CGCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Sbjct	240	CGCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG	299
Query	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Sbjct	300	GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA	359
Query	360	CCTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT	419
Sbjct	360	cctcaaagaaaaaccaaacgtaacaccaaccgtcgcccacaggacgtcgagttcccgggt	419
Query	420	GGCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTG	479
Sbjct	420	ĠĠĊĠĠŦĊĀĠĀŦĊĠŦŦĠĠŦĠĠĀĠŦŦŦĀĊŦŦĠŦŦĠĊĊĠĊĠĊĀĠĠĠĠĊĊĊŦĀĠĀŦŦĠĠĠŦĠŦĠ	479
Query	480	CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCC	539
Sbjct	480	CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGTGGTAGACGTCAGCCTATCCCC	539
Query	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTAT	599
Sbjct	540	AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTAT	599
Query	600	GGCAATGAGGGTTGCGGGTGGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGC	659
Sbjct	600	GGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGC	659
Query	660	TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTT	719
Sbjct	660	TGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTT	719
Query	720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGC	779
Sbjct	720	ACGTGCGACCTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGC	779
Query	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACA	839 839
Sbjct Query	780 840	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACA GGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Sbjct	840	GGGAACCTTCCTGGTTGCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACT	899
Query	900	GTGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Sbjct	900	GTGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGAT	959
Query	960	TGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	960		1019
Query	1020	GTCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020		1079
Query	1080	GCCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080		1139
Query	1140	GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1199

Sbjct	1140	GGGAGCGCCACCCTCTGCTCAGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTCTT	1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGCAA-GACTGCAATTG	1258
Sbjct	1200	GTTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAAG-CTGCAATTG	1258
Query	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGAACTG	1318
Sbjct	1259	TTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTG	1318
Query	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Sbjct	1319	GTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGA	1378
Query	1379	CATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Sbjct	1379	CATGATCGCTGGTGCTCACTGGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGG	1438
Query	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Sbjct	1439	GAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA	1498
Query	1499	CGTCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGG	1558
Sbjct	1499	cgtcaccggggaagtgccggccacaccacggctgggcttgttggtctccttacaccagg	1558
Query	1559	CGCCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Sbjct	1559	CGCCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGC	1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	cttgaactgcaacgatagccttaccaccggctggttagcagggctcttctatcgccacaa	1678
Query	1679	ATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Sbjct	1679	ATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
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Sbjct	1739	CCAGGGCTGGGGTCCCATCAGTTATGCCAACGGAAGCGCCCTTGACGAACGCCCCTACTG	1798
Query	1799	CTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Sbjct	1799	TTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGT	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1918
Sbjct	1859	atattgcttcactcccagccccgtggtggtggaacgaccgac	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCT	1978
Sbjct	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCT	1978
Query	1979	GGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGC	2038
Sbjct	1979	gggcaattggttcggttgtacctggatgaactcaactggattcaccaaagtgtgcggagc	2038
Query	2039	GCCCCTTGTGTCATCGGAGGGGTGGGCAACACCCTTGCTCTGCCCCACTGATTGCTT	2098
Sbjct	2039	GCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTT	2098
Query	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Sbjct	2099	CCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAG	2158
Query	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCAT	2218
Sbjct	2159	GTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACTATCAATTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Sbjct	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
Query	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCT	2338

Sbjct	2279	GACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCATTGCT	2338
Query	2339	GCTGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTC	2398
Sbjct	2339	GCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTC	2398
Query	2399	CACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGG	2458
Sbjct	2399	CACCGGCCTCATCCACCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGG	2458
Query	2459	GTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCT	2518
Sbjct	2459	gtcaagcatcgcgtcctgggccattaagtgggagtacgtcgttctcctgttccttctgct	2518
Query	2519	TGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGC	2578
Sbjct	2519	TĠĊAĠAĊĠĊĠĊĠĊĠŦĊŦĠĊŦĊĊŦĠĊŦŦĠŦĠĠĀŦĠŦŦĀĊŦĊĀŦĀŦĊĊĊĀĀĠĊĠĠĀĠĠĊ	2578
Query	2579	GGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGT	2638
Sbjct	2579	ĠĠĊŦŦŦĠĠĀĠĀĀĊĊŦĊĠŦĀĀŦĀĊŦĊĀĀŦĠĊĀĠĊĀŦĊĊĊŦĠĠĊĊĠĠĠĀĊĠĊĀĊĠĠŦĊŦŦĠŦ	2638
Query	2639	GTCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2698
Sbjct	2639	ĠŤĊĊŤŤĊĊŤĊĠŤĠŤŤĊŤŤĊŤĠĊŤŤŤĠĊĠŤĠĠŤĠĠŤĠĠĠŤĠĠĠĠĠĠ	2698
Query	2699	GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGTTGCCTCAGCG	2758
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Query	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Sbjct	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Query	2819	AATGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
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Query	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTT0000001CAACGT	2938
Sbjct	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGT	2938
Query	2939	CCggggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939	CCGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTTGTACACCCGACTCTGGTATT	2998
Query	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTGG	3178
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Sbjct	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
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Sbjct	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
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Sbjct	3299	GGGGGCAGATACCGCCGCGCGCGCGCCCACCCAACCGCAACCGCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCGCTCCAACCAA	3358
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Sbjct	3359	GGGCCAGGAGATACTGCTTGGACCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478

Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAACCAAGTGGAGGTGAGGTCCAGATCGTGCTAC	3538
Sbjct	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTTACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACCTA	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	gggtccgctgttgtgccccgcgggacacgccgtgggcctattcagggccgcggtgtgcac	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGACCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	atccccgctgttcacggacaactcctctccaccagcagtgccccagagcttccaggtggc	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	CCACCTGCATGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CÁCTGGCÁGCCCCÁTCÁCGTÁCTCCÁCCTÁCGGCÁÁGTTCCTTGCCGÁCGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	AGGAGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319	ĊŤŤĠĠĠĊĂŤĊĠĠĊĂĊŤĠŤĊĊŤŤĠĂĊĊĂĂĠĊĂĠĀĠĂĊŤĠĊĠĠĠĠĠĠĠĠĠĀĠĂŤŤĠĠŤŤĠŤĠĊŤ	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGTCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4439	tctgtccaccaccggagagatccc-tttctacggcaaggctatccccctcgaggtgatca	4497
Query	4498	AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Sbjct	4498	aggggggaagacatctcatcttctgtcactcaaagaagaagtgcgacgagctcgccgc	4557
Query	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4617

Sbjct	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	4617
Query	4618	TCCCGACCAGCGGCGATGTTGTCGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Sbjct	4618		4677
Query	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC	4737
Sbjct	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC	4737
Query	4738	TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Sbjct	4738	TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Query	4798	AACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGG	4857
Sbjct	4798	AGCGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGG	4857
Query	4858	AGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Sbjct	4858	AGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Query	4918	CTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Sbjct	4918	cttggtatgagctcatgcccgccgagactacagttaggctacgagcgtacatgaacaccc	4977
Query	4978	CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
Sbjct	4978	ĊĠĠĠĠĊŦŤĊĊĊĠŦĠŦĠĊĊĀĠĠĀĊĊĀŦĊŦŦĠĀĀŦŦŦŦĠĠĠĀĠĠĊĠŦĊŦŦŦĀĊĠĠĠĊĊŦĊĀ	5037
Query	5038	CTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACC	5097
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Query	5098	TGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC	5157
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Sbjct	5278	TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG	5337
Query	5338	TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5397
Sbjct	5338	TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5397
Query	5398	TCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG	5457
Sbjct	5398	TTGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
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Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGT	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAATTTCATCAGTGGGATACAATATTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757

Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Query	5758	CCCTCCTCTAACATATTggggggTGGGTGCCCAGCTCGCCGCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACCGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
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Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACG	6057
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Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6177
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Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGCTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Sbjct	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGCATTATGC	6417
Sbjct	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGC	6417
Query	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Sbjct	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
Query	6478	TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Sbjct	6478	TCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACA	6537
Query	6538	CCACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGT	6597
Sbjct	6538	CCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGT	6597
Query	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGA	6657
Sbjct	6598	CTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGA	6657
Query	6658	CTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGG	6717
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Query	6718	ACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Sbjct	6718	ACGGGGTGCGCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTAT	6777
Query	6778	CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC	6837
Sbjct	6778	CATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAAC	6837
Query	6838	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6897

Sbjct	6838	CGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6897
Query	6898	CCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGC	6957
Sbjct	6898	CCGGGAGAAGGTTGGCCAGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	6957
Query	6958	TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Sbjct	6958	TGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGC	7017
Query	7018	TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Sbjct	7018	TCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGT	7077
Query	7078	CAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGC	7137
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Query	7138	GGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGC	7197
Sbjct	7138	gggaggtetegtaceegcagaaattetgeggaagteteggagattegeeggeeetge	7197
Query	7198	CCGTCTGGGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Sbjct	7198	CCGTTTGGGCGGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACT	7257
Query	7258	ACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTC	7317
Sbjct	7258	ACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTC	7317
Query	7318	CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCG	7377
Sbjct	7318	CGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTA	7377
Query	7378	AGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGA	7437
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Query	7438	CAACATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACCTCCGACGTTGAGTCCTATT	7497
Sbjct	7438	CAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATT	7497
Query	7498	CTTCCATGccccccTGGAGGGGGGGGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGT	7557
Sbjct	7498	CTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATTTCAGCGACGGGTCATGGT	7557
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Sbjct	7558	CGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCT	7617
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Query	7738	GCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGG	7797
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Sbjct	8578	GTGCGGGGGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTTACGGAGGCTATGACCAGGT	8637
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Query	8818	ATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGA	8877
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Sbjct	9058	ccgcatgcctcagaaaacttggggtcccgcccttgcgagcttggagacaccgggcccgga	9117
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Query	854	TTGCTCTTCTCTATCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGC	913
Sbjct	842	TTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACCGTGCCCGCTTCAGC	901
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Query	974	TATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCG	1033
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Query	1034	CGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCACGGTGGCCACCAGGGACGG	1093
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Sbjct	1142	ĊŦĠĊŦĊĠĠĊĊĊŦĊŦĂĊĠŦĠĠĠĠĠĂĊĊŦĠŦĠĊĠĠĠŦĊŦĠŦĊŦ	1201
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Sbjct	1322	GTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGC	1381
Query	1394	TCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGT	1453
Sbjct	1382	CCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGT	1441
Query	1454	CCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAA	1513
Sbjct	1442	CCTGGTAGTGCTGCTATTTGCCGGCGTTGACGCGGAAACCCACGTCACCGGGGGAAG	1501
Query	1514	TGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACAT	1573
Sbjct	1502	TGCCGGCCACACCACGGCTGGGCTTGTTCGTCTCCTTTCACCAGGCGCCAAGCAGAACAT	1561
Query	1574	CCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGA	1633
Sbjct	1562	CCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAACTGCAATGA	1621
Query	1634	AAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGG	1693
Sbjct	1622	AAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCACCACAAATTCAACTCTTCAGG	1681
Query	1694	CTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCC	1753
Sbjct	1682	TTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCGGGGTCC	1741
Query	1754	TATCAGTTATGCCAACGGAAGCGGCCTCGACGACGCCCCTACTGCTGGCACTACCCTCC	1813
Sbjct	1742	TATCAGTTACGCCAACGGAAGCGGCCTCGATGAACGCCCCTACTGCTGGCACTACCCTCC	1801
Query	1814	AAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCC	1873
Sbjct	1802	AAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCC	1861
Query	1874	CAGCCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTA	1933

Sbjct	1862	CAGCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTA	1921
Query	1934	AAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGG	1993
Sbjct	1922	AAATGATACGGATGTCTTTGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGG	1981
Query	1994	TTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCAT	2053
Sbjct	1982	TTGCACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCAT	2041
Query	2054	CGGAGGGGTGGGCAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGA	2113
Sbjct	2042	CGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAGCATCCGGA	2101
Query	2114	AGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTA	2173
Sbjct	2102	AGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTA	2161
Query	2174	CCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGAT	2233
Sbjct	2162	CCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGAT	2221
Query	2234	GTACGTGGGAGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACG	2293
Sbjct	2222	GTACGTGGGAGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACG	2281
Query	2294	CTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACA	2353
Sbjct	2282	CTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGTCCACCACGCA	2341
Query	2354	GTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCA	2413
Sbjct	2342	GTGGCAGGTCCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCA	2401
Query	2414	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTC	2473
Sbjct	2402	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTC	2461
Query	2474	CTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCAGACGCGCGT	2533
Sbjct	2462	ĊŤĠĠĠĊŦĂŦŤĂĂĠŤĠĠĠĀĠŤĀĊĠŤĊĠŤŤĊŤĠŤŤĊĊŤŤĊŤĠĊŤŤĠĊĀĠĀĊĠĊĠĊĠĊĠ	2521
Query	2534	CTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCT	2593
Sbjct	2522	TTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCT	2581
Query	2594	CGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2653
Sbjct	2582	CGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTTTTGTGTCCTTCCT	2641
Query	2654	CTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTA	2713
Sbjct	2642	CTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCAGCCTACGCCCTCTA	2701
Query	2714	CGGGATGTGGCCTCCTCCTGCTCCTGCTGCGTTGCCTCAGCGGGCATACGCACTGGA	2773
Sbjct	2702	CGGGATATGGCCTCCTCCTGCTGCTGCTGCGTTGCCTCAGCGGGCATACGCACTGGA	2761
Query	2774	CACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCT	2833
Sbjct	2762	CACGGAGGTGGCCGCGTCGTGTGGCGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCT	2821
Query	2834	GTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGAC	2893
Sbjct	2822	GTCGCCATACTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGAC	2881
Query	2894	CAGAGTAGAAGCGCAACTGCACGTGTGGGTTcccccccTCAACGTCCgggggggGCGCGA	2953
Sbjct	2882	CAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTTCGGGGGGGG	2941
Query	2954	TGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAAC	3012
Sbjct	2942	TGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAAC	3000
Query	3013	TACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCT	3072

Sbjct	3001	TACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCT	3060
Query	3073	ACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAG	3132
Sbjct	3061	ACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAG	3120
Query	3133	GTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATA	3192
Sbjct	3121	GTCATTACGTGCAAATGATCTTCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATA	3180
Query	3193	ACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTG	3252
Sbjct	3181	ACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTG	3240
Query	3253	TGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCG	3312
Sbjct	3241	TGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCG	3300
Query	3313	CCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATAC	3372
Sbjct	3301	CCGCGTGCGGTGACATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGGCCAGGAGATAC	3360
Query	3373	TGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGG	3432
Sbjct	3361	TGCTTGGACCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGG	3420
Query	3433	CGTACGCCCAGCAGAGGGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGG	3492
Sbjct	3421	CGTACGCCAGCAGACGAGACGAGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGG	3480
Query	3493	ACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGG	3552
Sbjct	3481	acaagaaccaagtggagggtgaggtccagatcgtgtcaactgctacccaaaccttcctgg	3540
Query	3553	CAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCG	3612
Sbjct	3541	CAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCG	3600
Query	3613	CATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCT	3672
Sbjct	3601	CATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCT	3660
Query	3673	GGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTT	3732
Sbjct	3661	GGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGACCTTT	3720
Query	3733	ACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTA	3792
Sbjct	3721	ACCTGGTCACGAGGCACGCCGATGTCATTCCTGTGCGCCGGCAAGGTGATAGCAGGGGTA	3780
Query	3793	GCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGT	3852
Sbjct	3781	GCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGT	3840
Query	3853	GCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTA	3912
Sbjct	3841	GCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTA	3900
Query	3913	AAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCA	3972
Sbjct	3901	AGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACCATGAGATCCCCGGTGTTCA	3960
Query	3973	CGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTC	4032
Sbjct	3961	CGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTC	4020
Query	4033	CCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGG	4092
Sbjct	4021	CCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCTCAGGGCTATAAGG	4080
Query	4093	TGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGG	4152
Sbjct	4081	ŤĠŤŤĠĠŤĠĊŤĊĂĂĊĊĊŤŤĊŤĠŤŤĠĊŤĠĊŔĂĊĠĊŤĠĠĠĊŤŤŤĠĠĊĠĊŤŤĂĊĂŤĠŤĊĊĂĂĠĠ	4140
Query	4153	CCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCA	4212

Sbjct	4141	CCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCTA	4200
Query	4213	TCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATG	4272
Sbjct	4201	TCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATG	4260
Query	4273	ACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4332
Sbjct	4261	ACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4320
Query	4333	CTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACTGCTACCC	4392
Sbjct	4321	CTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGAGATTGGTTGTGCTCGCCACTGCTACCC	4380
Query	4393	CTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCG	4452
Sbjct	4381	CTCCGGGCTCCGTCACTGTGCCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCG	4440
Query	4453	GAGAGATCCCCTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATC	4512
Sbjct	4441	GAGAGATCCCTTTTTACGGCAAGGCCATCCCTCTCGAGGTGATCAAGGGGGGAAGACATC	4500
Query	4513	TCATCTTCTGCCACTCAAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGG	4572
Sbjct	4501	TCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCACTGG	4560
Query	4573	GCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4632
Sbjct	4561	GCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4620
Query	4633	ATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTG	4692
Sbjct	4621	ATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACTGGCGACTTCGACCCTG	4680
Query	4693	TGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTATA	4752
Sbjct	4681	TGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTTTA	4740
Query	4753	CCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGA	4812
Sbjct	4741	ccattgagacaaccacgctccccaggatgctgtctccaggactcaacgccggggcagga	4800
Query	4813	CTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCGCCCCTCCGGCA	4872
Sbjct	4801	ctgcaggggaagccaggcatctacagatttgttgcaccgggggagcgcccctccggca	4860
Query	4873	TGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCA	4932
Sbjct	4861	TGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCA	4920
Query	4933	CGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGT	4992
Sbjct	4921	CGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGT	4980
Query	4993	GCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5052
Sbjct	4981	GCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5040
Query	5053	ACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAG	5112
Sbjct	5041	a ctttctatcccagacaaagcagagcgggagaactttccttacctggtagcgtaccaag	5100
Query	5113	CCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTT	5172
Sbjct	5101	ccaccgrgrgcgctagggctcaagcccctccccatcgrggaccagatgrggaagrgrr	5160
Query	5173	TGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTG	5232
Sbjct	5161	TGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTG	5220
Query	5233	TTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5292
Sbjct	5221	ticagaatgaaatcaccctgacgcacccagtcaccaaatacatcatgacatgcatg	5280
Query	5293	CCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTCTTGG	5352

Sbjct	5281	CCAACCCGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGG	5340
Query	5353	CCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGA	5412
Sbjct	5341	CCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATTGTCTTGTCCGGGA	5400
Query	5413	AGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGT	5472
Sbjct	5401	AGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGT	5460
Query	5473	GCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGA	5532
Sbjct	5461	GCTCTCAGCACTTACCGTACATCGAACAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGG	5520
Query	5533	AGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCC	5592
Sbjct	5521	AGGCCCTCGGCCTGCAGACCGCGTCCCGCCAAGCAGAGGTTATCACCCCTGCTGTCC	5580
Query	5593	AGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTG	5652
Sbjct	5581	AGACCAACTGGCAGAAACTCGAGGCCTTCTGGGCGAAGCACATGTGGAATTTCATCAGTG	5640
Query	5653	GGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGA	5712
Sbjct	5641	ĠĠĀĊĀĀTĀĊĪŤĠĠĊĠĠĠĊĊŢĠŤĊĀĀĊĠĊŤĠĊĊŢĠĠŤĀĀĊĊĊĠĊĊĀŢŤĠĊŢŤĊĀŤŤĠĀ	5700
Query	5713	TGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACA	5772
Sbjct	5701	TGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTAGCCAAACCCTCCTCTTCAACA	5760
Query	5773	TATTqqqqqqTGGGTGCCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGG	5832
Sbjct	5761	TATTGGGGGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTACCGCCTTTGTGG	5820
Query	5833	GTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGGAAGGTCCTCGTGGACA	5892
Sbjct	5821	GCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACA	5880
Query	5893	TTCTTGCAGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTAGCATTCAAGATCATGAGCG	5952
Sbjct	5881	TACTTGCGGGGTATGGCGCGGGCGTGGCGGGAGCCCTTGTGGCATTCAAGATCATGAGCG	5940
Query	5953	GTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAG	6012
Sbjct	5941	GTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAG	6000
Query	6013	CCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCCACGTTGGCCCGGGCGAGG	6072 6060
Sbjct	6001	CCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGG	
Query	6073 6061	GGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCC	6132 6120
Sbjct Querv	6133	CCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCC	6192
Sbjct	6121	CCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCC	6180
Query	6193	TCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTC	6252
Sbjct	6181		6240
Query	6253	CATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACT	6312
Sbjct	6241	CATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACT	6300
Query	6313	TTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCT	6372
Sbjct	6301		6360
Query	6373	GCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACT	6432
Sbjct	6361		6420
Query	6433	GTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGA	6492

Sbjct	6421		6480
Query	6493	CCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTA	6552
Sbjct	6481		6540
Query	6553	CTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACG	6612
Sbjct	6541		6600
Query	6613	TGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTA	6672
Sbjct	6601		6660
Query	6673	AATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTAC	6732
Sbjct	6661	AATGCCCGTGCCAGATCCCCTACCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTAC	6720
Query	6733	ACAGGTTTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGAC	6792
Sbjct	6721	ATAGGTTTGCGCCCCCCTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGAC	6780
Query	6793	TCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGT	6852
Sbjct	6781	TCCACGAGTACCCGGTGGGGTCGCAACTACCTTGCGAGCCCGAACCGGACGTAGCCGTGT	6840
Query	6853	TGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGG	6912
Sbjct	6841	TGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGGAGGTTGG	6900
Query	6913	CGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTC	6972
Sbjct	6901 6973	CGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCATCTC	6960 7032
Query Sbjct	6961	TCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACC	7032
Query	7033	TCTGTGGAGGCAGGAGATGGCCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGG	7020
Sbjct	7021		7080
Query	7093	TGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTAC	7152
Sbjct	7081		7140
Query	7153	CTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGC	7212
Sbjct	7141		7200
Query	7213	CGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGG	7272
Sbjct	7201	CGGACTACAACCCCCCGCTAATAGAGACGTGGAAAGAGCCTGACTACGAACCACCTGTGG	7260
Query	7273	TCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGC	7332
Sbjct	7261	tccatggctgcccgttaccacctccacggtcccctctgtgcctccgcctcggaaaaagc	7320
Query	7333	GTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAA	7392
Sbjct	7321	ĠŦŔĊĠĠŦĠĠŦĊĊŦĊŔĊĊĠŔŔŦĊŔŔĊĊĊŦŔŦĊŦŔĊŦĠĊĊŦŦĠĠĊĊĠŔĠĊŦŦĠĊĊŔĊĊŔŔŔŔ	7380
Query	7393	GTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGC	7452
Sbjct	7381	GTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGC	7440
Query	7453	CCGCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTTCCATGccccccc	7512
Sbjct	7441	CCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCCC	7500
Query	7513	TGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTG	7572 7560
Sbjct	7501 7573	TGGAGGGGAGCCTGGGGACCCGGATTTCAGCGACGGTCATGGTCGACGGTCAGTAGTG  GGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCG	7632
Query	1513	DOCUMENT DE LA CONTROL DE LA C	1002

Sbjct	7561	GGGCCGACACGGAAGATGTCGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCG	7620
Query	7633	TCACCCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGC	7692
Sbjct	7621	TCACCCCGTGCGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGC	7680
Query	7693	TACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGA	7752
Sbjct	7681	TACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGA	7740
Query	7753	AAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGG	7812
Sbjct	7741	AAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGG	7800
Query	7813	TCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCC	7872
Sbjct	7801	TCAAAGCAGCGGCGTCAAGAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCC	7860
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Sbjct	8521	GCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGG	8580
Query	8593	AGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGcccccccccc	8652
Sbjct	8581	AGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCG	8640
Query	8653	gggacccccaCaacCagaataCgaCttgGaGCttataaCatCatGCtCCtCCaaCgtgt	8712
Sbjct	8641	GGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGT	8700
Query	8713	CAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCC	8772

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     9253
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Sbjct
Query
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              9377
         I \mid I \mid I \mid I
     9361
         GATGA
              9365
Sbjct
>dbj|DI026879.1| A detecting method of hepatitis C virus using recombinant mixed
antigens derived from HCV and a diagnostic kit thereof Length=9618
Score = 1.541e+04 bits (8342), Expect = 0.0 Identities = 9205/9627 (95%), Gaps = 37/9627 (0%)
Strand=Plus/Plus
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Sbjct
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Query
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                                                       180
Sbjct
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Query

Sbjct

Query

Sbjct

181

181

241

241

240

240

300

300

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Sbjct	361	CICAAAGAAAACCAAACGIAACACCAACCGICGCCCACAGGACGICAAGIICCCGGGIG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421		480
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Sbjct	481		540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541		600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601		660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
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Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	rgcccgcttcggcctaccaagtgcgcaactccacggggctttaccacgtcaccaatgatt	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
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Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
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Sbjct	1081	ccaccaggatggcaaactccccgcgacgcagcttcgacgtcacatcgatctgcttgtcg	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ĠĠġĠĊĠĊĊġĊĊĊĊĊĊĠŢĊĠĠĊĊĊĊĊĸĠĊĠĠĠĠĠĠĠĠĠĠĠĠ	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
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Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ctatctatcccgctcatataacgggtcaccgcatggcatgggatatgatgatgaactggt	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	cccctacgacgccgttggtaatggctcagctgctccgcatcccacaagccatcttggaca	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
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Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTTTTGCCGGCGTCGACGCGGAAACCCACG	1500
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Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGG-CTTGTTGGTCT-CCTTACACCAGG	1558
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Sbjct	1559	CGCCAAGCAGAATGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGC	1618
Query	1619	CTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAA	1678
Sbjct	1619	CCTGAACTGCAATGATAGCCTTAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAA	1678
Query	1679	ATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGC	1738
Sbjct	1679	GTTCAACTCTTCAGGCTGCCCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGA	1738
Query	1739	CCAGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTG	1798
Sbjct	1739	CCAGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTG	1798
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Sbjct	1799	ĊŤĠĠĊĂĊŤĂĊĊĊĊĊĂĂAĂĊĊŤŤĠĊĠĠŦĂŤŤĠŤĠĊĊĊĠĊĠĂĂĠĂĠŦĠŤĠŤĠŤĠŤĊĊĠĠŤ	1858
Query	1859	ATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1918
Sbjct	1859	ÁTATTGCTTCÁCTCCÁGCCCCGTGGTGGTGGGÁACGÁCCGÁCÁGGTCGGGCGCGCCTÁC	1918
Query	1919	CTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCCAGGCCACCGCT	1978
Sbjct	1919	ĊŦŔĊŔĠĊŦĠĠĠĠŦĠĸŔŔĂĊĠŔŦŔĊĠĠŔĊĠŦŦŦŦĊĠŦĊĊŦŦŔŔĊŔŔŦŔĊĊŔĠĠĊĊŔĊĊĠĊŦ	1978
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Sbjct	2159	GTGCCTGGTCGATTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCAT	2218
Query	2219	ATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTG	2278
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Sbjct	2639	a t c t t c t c f c t t c t c t c t c t c	2698
Query	2699	GGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCCTCAGCG	2758
Sbjct	2699	GGTCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCG	2758
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Query	3118	GGAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTG	3177
Sbjct Query	3118 3178	GGAAGATGGCCGGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTG GCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAG	3177 3237
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Ouerv	3298	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTA	3357
Sbjct	3298		3357
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Sbjct	3658		3717

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Sbjct	3718	gctcctcggacctttacctggtaacgaggcacgccgatgtcattcccgtgcgccggcgg	3777
Query	3778	GTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGG	3837
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Query	3838	GGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCA	3897
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Sbjct	4018	ctcacctccatgctccacaggcagcagcaaaagcaccaaggtcccggctgcatatgcag	4077
Query	4078	CCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTG	4137
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Query	4258	CAGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACACCA	4317
Sbjct	4258	cggggggcgcttatgacataataatttgtgacgagtgccactccacggatgccacatcca	4317
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Sbjct	4318	rcttgggcatcggcactgtccttgaccaagcagactgcgggggggg	4377
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Sbjct	4378	tcgccaccgccacccctccggctccgtcactgtgccccatcccaacatcgaggaggttg	4437
Query	4438	CTCTGTCCACCACCGGAGAGCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCA	4497
Sbjct	4438	ctctgtccaccaccggagagatccctttttacggcaaggctatcccctcgaagtaatca	4497
Query	4498	AGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGA	4557
Sbjct	4498	aggggggagacatctcatcttctgtcattcaaagaagaagtgcgacgaactcgccgcaa	4557
Query	4558	AGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4617
Sbjct	4558	agctggtcgcattggcatcaatgccgtggcctactaccgcggtcttgacgtgtccgtca	4617
Query	4618	TCCCGACCAGCGGCGATGTTGTCGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCG	4677
Sbjct	4618	tcccgaccagcgcgatgttgtcgtcgtggcaaccgatgccctcatgaccggctataccg	4677
Query	4678	GCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCC	4737
Sbjct	4678	gcgacttcgactcggtgatagactgcaatacgtgtgtcacccagacagtcgatttcagcc	4737
Query	4738	TTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTC	4797
Sbjct	4738	ttgaccctaccttcaccattgagacaatcacgctccccaggatgctgtctcccgcactc	4797
Query	4798	AACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGG	4857
Sbjct	4798	AACGTCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGG	4857

Query	4858	AGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTG	4917
Sbjct	4858	AĞCĞCCCTCTĞĞCATĞTTCĞACTCĞTCCĞTCCTCTĞTĞAĞTĞCTATĞACĞCAĞĞCTĞTĞ	4917
Query	4918	CTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCC	4977
Sbjct	4918	ĊŤŤĠĠŤĂŤĠĂĠĊŤĊĂĊĠĊĊĠĊĊĠĠĠĠĠĠĠĊŤĂĊĠĠĠĊĠŤĂĊĠŤĠĀĀĊĂĊĊĊ	4977
Query	4978	CGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCA	5037
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Sbjct	5098	TGGTAGCGTACCAAGCCACTGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACC	5157
Query	5158	AGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTAT	5217
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Sbjct	5278 5338	TGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCG  TCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGA	5337 5397
Query Sbjct	5338		5397
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Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
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Query	5878 5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937 5937
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Query Sbjct	5938		5997
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Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	tcctctcgcccggagccttcgtagtcggcgtggtctgtgcagcaatactgcgccggcacg	6057
Query	6058	TTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	tiggcccggcgaggggcagtgcaatggatgaaccggctgatagccttcgcctcccgg	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTG	6177
Sbjct	6118	ggaaccatgtttcccccacgcactacgtgccggagagcgatgcagctgcccgcgtcactg	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	ccatactcagcagcctcactgtaacccagctcctgaggcgactgcaccagtggataagct	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
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Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
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Sbjct	6358	tcccctttgtgtcctgccagcgcggtataagggggtctggcgagggacggcatcatgc	6417
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Sbjct	6418	ACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGA	6477
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Sbjct	6538	CCACGGGCCCCTGTACCCCCCTTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGT	6597
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Sbjct	6897	GCCGGGCGGAGGTTGGCGAG-GGGATCACCCCCTCTGTGGCCAGCTCCTCGGCTAGCCA	6955
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Sbjct	6956	GCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGA	7015
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Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
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Sbjct	7316	TCCGCCTCGGAAGAAGCGGACGGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGC	7375
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7376	CGAGCTTGCCATCAAAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
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Sbjct	7436	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCGCGACTCCGACGCTGAGTCCTA	7495
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Query	7556 7556	GTCGACGGTCAGTAGTGGGGCC-GACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614 7614
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Sbjct	7794		7853
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Sbjct	7854		7913
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Query         901         TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTTACCATGTCACCAATGATT         960           Sbjet         901         TGCCCGCTTCAGCCTACCAAGTGCGCAACTCCACGGGGCTTTTACCACGTCACCATGATT         960           Query         961         GCCCTAACTCGAGTATTGTGTACGAGGGCCCCACCTCGGCACACTCCGGGGGTGG         1020           Sbjet         961         GCCCTAACTCGAGTATTGTTACGAGGCGCCGCATGCCATCCTGCACACTCCCGGGGTGG         1020           Query         1021         TCCCTTCGCTTCGGCGAGGGTAACGCCTCGAGGTGTGGGTGG	Query	841		900
Sbjet         901         TGGCCGTTCGGCCTACCAGAGTGGCGAGTGCCAGGGGCTTTACCAGTGTCACAGTGTCACAGTGTCACAGTGTCACAGTGTCACAGTGTCACAGTGTCACAGTGTCACAGTGTCACAGTGTCACAGTGCACTCTGGCACACTCCGGGGTGTG         1020           Sbjet         961         GCCCTAACTCGAGTATTGTGTACGAGGGCGCCGATGCCATCCTGCACACTCCGGGGTGTG         1020           Sbjet         961         GCCCTAACTCGAGTATTGTGTACGAGGGGGTGGAGCCCACCTCGACGTGGTG         1020           Query         1021         TCCCTTGCGTTCGGAGGGTAACGCCTCGAGGTGTTGGGTGGG	Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTG	900
Query         961         GCCCTAACTGGAGTATTGTGTACGAGGGGGCCGATGCCATCCTGCACACTCCGGGGTGG         1020           Sbjet         961         GCCCTAACTGGAGTATTGTGTACGAGGGGGCGATGCCATCTGCACACTCCGGGGTGG         1020           Query         1021         TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGATGACCCCCACGGTGG         1080           Sbjet         1021         TCCCTTGCGTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCCTACGGTGG         1080           Sbjet         1021         TCCCCTTGCTTCGTGAGGGCAACGCCTCTGAGGTTTGGGTGGCGATGACCCCTACGGTGG         1080           Query         1081         CCACCAGGGACGCCAACTCCCCCACACGCGAGCTTTGACGTCATATCGATTGCTTGTTCG         1140           Sbjet         1141         GGAGGGCCACCCTTGTCTGGGCCCTCTACGTGGGGGGACCTTGCACTGCTGCTGTTTCTTG         1200           Sbjet         1141         GGAGGCCACCCTTGTTCGGCCCTCTACGTGGGGGGACCTTGCACGGGTTGTTTTTTG         1200           Query         1201         TTGGTCAACTGTTTACCTTTCTCTCCCAGGGGCCACTGGACGACGCAAGACTGCAATTGCTT         1260           Query         1261         CTATCTATCCCGGCCATATAACGGGTCATCGCATGGGATATGATGATGATGATGATGATTGCTT         1260           Query         1261         CTATCTATCCCGGCCATATAACGGGTCACCGCATGGGATGGGATATGATGAACTGGAT         1380           Sbjet         1321         CCCCTACGACGGTGGTGGTGGTGGTCACGGCATGCGATGCGATCCACAAGCAATCAAT	Query	901		
Sbjet         961         GCCCTAACTGGAGTATTGGTACCAGGGGGGCCATGCCAT	2			
1021   TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGG	_			
	2			
Query         1081         CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG         1140           Sbjet         1081         CCACCAGGGATGGCAAACTCCCCCGCGACGCAGCTTCGACGTCAGTCTGTCT	_			
	2			
Query         1141         GGAGCGCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTCTTG         1200           Sbjet         1141         GGAGCGCACCCTCTGTTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGTTTTCTTG         1200           Query         1201         TTGGTCAACTGTTTACCTCTCCCAGGCGCCACTGGACGAAGACTGCAATTGTT         1260           Sbjet         1201         TCGGCCAACTGTTCACCTTCCTCCCAGGCGCCACTGGACGACGAAGACTGCAATTGTT         1260           Query         1261         CTATCTATCCCGGCCATATAACGGGTCATCGATGGACTGGACGACGCAAGGTTGCAATTGTT         1320           Sbjet         1261         CTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGGGATATGAATGA	_			
Sbjet   1141   GGAGCGCCACCTCTGTTCGGCCCTCTCACGGGGGACCTATGCGGGTTCTTCTTG   1200	2			
Query         1201         TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGCAAGACTGCAATTGTT         1260           Sbjet         1201         TCGGCCAACTGTTACCTTCTCTCCCAGGCGCCACTGGACGACGAAGGTTGCAATTGCT         1260           Query         1261         CTATCTATCCCGGCCATATAACGGGTCATCGCATGGAATGGATAGATGATGAACTGGT         1320           Sbjet         1261         CTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGGGATAGATGATGATGAACTGGT         1320           Query         1321         CCCCTACGGCAGCGTTGGTGGTAGCTCACTGCTCCCGGATCCCAAGCCATCATGGACA         1380           Sbjet         1321         CCCCTACGGCAGCGTTGGTGAATGGCTCACTGGCGGCATACCACAAGCCATCTTGGACA         1380           Query         1381         TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATACCGATACCACAAGCCATCTTGGACA         1380           Query         1381         TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATACCGATATTCTCCATGGTGGGGA         1440           Sbjet         1381         TGATCGCTGGTGCTCACTGGGGGGCATACCGATACCGATATTCTCCATGGTGGGGA         1440           Sbjet         1381         TGATCGCTGGTGCTCACTGGGGGGCCATACCGATATTCTCCAACAACCCACG         1500           Query         1441         ACTGGGCGAAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG         1500           Query         1501         TCACCGGGGGAAATGCCTGGTAGTGCTGCTGTTTTGCCGTTGGACGCTTAACCACCACGGCGCCACCACTTTACCACACCACACGGCCTTTACCACACCACACGGCCTTTACCACACCACACGCCCTTAACACACCAACGGCACTTTGGACACCACACACA	· ·			
Sbjet 1201 TCGGCCAACTGTTCACCTTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCATTGCT 1260 Query 1261 CTATCTATCCCGGCCATATAACGGGTCACTGCATGGCATGGATATGATGAACTGGT 1320 Sbjet 1261 CTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGGGATATGATGAACTGGT 1320 Query 1321 CCCCTACGGCAGCGTTGGTGGTGAGCTCAGCTGCCTCCGGATCCCACAAGCCATCATGGACA 1380 Sbjet 1321 CCCCTACGACGGCGTTGGTGATAGGTCAGCTCCCCGCACAAGCCATCATGGACA 1380 Query 1381 TGATCGCTGGTGCTCACTGGGGAGTCCCTCCCGGATCCCACAAGCCATCTTGGACA 1380 Query 1381 TGATCGCTGGTGCTCACTGGGGAGTCCTGCGGGGCATAGCGTATTTCTCCATGGTGGGGA 1440 Query 1441 ACTGGGCGAAGGTCCTGGTGGTGCTGCTGCTGCTATTTGCCCGGCGTCGACGCGGAACCCACG 1500 Sbjet 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCCGGCGTCGACGCGGAAACCCACG 1500 Query 1501 TCACCGGGGGAAGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG 1560 Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCTTGGATTGTCTACACCAGGCG 1560 Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACCCACAAGCGC 1560 Query 1621 TGAACTGCAACACCAACTGATCAACACCAACGGCAGTTGGCACCCACAAGCGC 1620 Query 1621 TGAACTGCAAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCC 1620 Query 1621 TGAACTGCAAGAACGTCCAGCTGGTTAGTACACACAACACCAACGGCCTTTCTATCACCACAAGT 1680 Query 1681 TCAACCTCTCAGGCTGTCCTGAACACCCAACCGGCTGGACGCCTTATCTACACCACAAT 1680 Query 1681 TCAACTCTCAGGCTGTCCTGAACACCCAACCGGCTGGCACCCCTAATAGCACCACAAT 1680 Query 1681 TCAACTCTCAGGCTGTCCTGAAGAGGTTGGCACCTCTAACACCACAAGT 1680 Query 1681 TCAACTCTTCAGGCTGTCCTGAAGAGGCTGGCAGCCCCCTAACCACCGACTTTTTCACCCACAAGT 1680 Query 1681 TCAACTCTCAGGCTGCTCCTGAGAGGCTGGCAGCCCCCTTACCGATTTTGCCC 1740 Sbjct 1681 TCAACTCTTCAGGCTGTCCTGAGAGGCTGGCAGCCCCCCAACCGGCCCCCCACCCGCCCCACCCCCACCCGCCCCACCCCCC	2			
Query         1261         CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT         1320           Sbjet         1261         CTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGGATATGATGATGAACTGGT         1320           Query         1321         CCCCTACGGCAGCTTGGTGAGCTCACCGCATGGCATCCCAAAGCCATCATGACAA         1380           Sbjet         1321         CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA         1380           Query         1381         TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA         1440           Sbjet         1381         TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA         1440           Sbjet         1441         ACTGGCGGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCACCAGGGGAAACCCACG         1500           Sbjet         1441         ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACCGCGGAAACCCACG         1500           Query         1501         TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGCTTATTTGCCGGCGTCGACGCGGAAACCCACG         1500           Query         1501         TCACCGGGGGAACTGCCGGCCACACACTGTGTCTGGTTTGTGTTGTTTAGCCTCCTCACCACGGC         1620           Sbjet         1561         CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAACACCAGCGCC         1620           Query         1621         TGAATTGCAATGATAGCCTCTAACACCACCAGCGCTTTCTATCAACACCAAAGT         1680           Sbjet         1621         TGAACTGCAATGA	_	1201		1260
Sbjet         1261         CTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGGATATGATGATGATGATGACTGGT         1320           Query         1321         CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA         1380           Sbjet         1321         CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA         1380           Sbjet         1321         CCCCTACGACGGCGTTGGTAATGGCTCACTGGCGGCATAGCCGATCCCACAAGCCATCTTGGACA         1380           Query         1381         TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGA         1440           Sbjet         1381         TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA         1440           Query         1441         ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTATTTGCCGGCGTCGACGCGGAAACCCACG         1500           Sbjet         1441         ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG         1500           Query         1501         TCACCGGGGGAATGCCGGCCGCCACCACCGGCTGGCTTTTCTGCACCAGGCGAAACCCCACG         1500           Query         1501         TCACCGGGGGAATGCCGGCCCACCACCGGCTGGTTTGTTT	Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjet 1321 CCCCTACGACGCGTTGGTAATGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA 1380  Query 1381 TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATATTCTCCATGGTGGGA 1440  Sbjet 1381 TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGA 1440  Query 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTGGCGGCATAGCGTATTTCTCCATGGTGGGA 1440  Query 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTGCTGCTGCTGCTGACGCGGCAAACCCACG 1500  Query 1501 TCACCGGGGGAATGCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG 1500  Query 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGACGCGGAAACCCACG 1560  Sbjet 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGACGCGGACACCACGGCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTTGTCTCCTTACACCAGGCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACCTCCTCTCGCACCAGGCG 1620  Query 1621 TGAATTGCAATGAAAGCCTAACACCAACGGCAGTTGGCACCTCAATAGCACGGCC 1620  Query 1621 TGAATTGCAATGAAAGCCTTAACACCAACGGCAGTTGGCACCTCAATAGCACGACT 1680  Sbjet 1621 TGAACTGCAATGAATAGCACCGGCTGGTTAGCAGGGCTTTTCTATCAACACAAAAT 1680  Query 1681 TCAACTCTCAGGCTGTCCTGAACACCGGCTGGTTGGCAGCCCTTACCACCAACGT 1620  Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCAGCCCTTACCACTTTTTGCC 1740  Sbjet 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCCCCTTACCGATTTTGCC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAACGGCCCCTTACCGATTTTTGACC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCCCTACTGCT 1800  Sbjet 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGCCCCTACTGCT 1800	Sbjct	1261		1320
Sbjet 1321 CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCACAAGCCATCTTGGACA 1380  Query 1381 TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA 1440  Sbjet 1381 TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA 1440  Query 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTGTTTTGCCGGCGGCACACCACG 1500  Sbjet 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG 1500  Query 1501 TCACCGGGGGAAATGCCGGCCGCACCACACGGCTGGCTCGACGCGGAAACCCACG 1500  Query 1501 TCACCGGGGGAAATGCCGGCCGCACCACACGGCTGGCTTGTTGGTCTCCTTACACCAGGCG 1560  Query 1501 TCACCGGGGGAAATGCCGGCCGCACCACACGGCTGGATTTGTTAGCCTCCTCGCACCAGGCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCC 1620  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCC 1620  Query 1621 TGAATTGCAATGAAAGCCTCAACCACACGGCTGGTTAGCACGCCTCTCTATCAACACAAAT 1680  Sbjet 1621 TGAATTGCAATGATAGCCTCAACACCGGCTGGTTAGCAGGGCTTTCTATCAACACAAAT 1680  Query 1681 TCAACTCTTCAGGCTGTCCTGAACACCGCTGTTGCCAGCGCCTTTCTATCAACCACAAGT 1680  Query 1681 TCAACTCTTCAGGCTGTCCTGAACACCGGCTGGTTGGCAGCGCCTTATCACCACAAGT 1680  Query 1741 AGGGCTGGGGTCCTGAGAGGGTTAGCCAGCGCCCTTACCGATTTTGCC 1740  Query 1741 AGGGCTGGGGTCCTTACAGTTATGCCAACGGAAGCGCCCCTACTGCT 1800  Sbjet 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGCCCCTACTGCT 1800	Query	1321		1380
Sbjet 1381 TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGA 1440  Query 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGGCGAAACCCACG 1500  Sbjet 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG 1500  Query 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGCTTGTTGGTCTCCTTACACCAGGCG 1560  Sbjet 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGACTGTTGTTAGCCTCCTTACACCAGGCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACCACCACCGCCTGACCACCACGGCC 1620  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACCACAACAACAACAACACAACACACAC	Sbjct	1321		1380
Sbjet 1381 TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA 1440  Query 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG 1500  Sbjet 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG 1500  Query 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGCTTGATGGTCTCCTTACACCAGGCG 1560  Sbjet 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGCTTGTTGGTCTCCTTACACCAGGCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT 1620  Sbjet 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT 1620  Query 1621 TGAACTGCAACGACAGTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACCAAAT 1680  Query 1621 TGAACTGCAATGAAAGCCTTAACACCGGCTGTTAGCAGGGCCTTTCTATCAACACAAAT 1680  Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTTGGCAGGCCCTTACCGATTTTGCCC 1740  Sbjet 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTTGGCCAGCGCCCTTACCGATTTTGCC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGGGCCCCTACCGATTTTGACC 1740  Sbjet 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGGGCCCCTACTGCT 1800  Sbjet 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGGGCCCCTACTGCT 1800	Query	1381		1440
Sbjet 1441 ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGAAACCCACG 1500  Query 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG 1560  Sbjet 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACCATCAATAGCACGGCCT 1620  Sbjet 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC 1620  Query 1621 TGAATTGCAATGAAAGCCTTAACACCCAACGGCAGTTGGCACCTCAATAGCACGGCCC 1620  Sbjet 1621 TGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTTTTCTATCAACACAAAT 1680  Sbjet 1621 TGAACTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT 1680  Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGGTTGGCCAGCTGCCGACGCTTTCTATCACCACAAGT 1680  Sbjet 1681 TCAACTCTTCAGGCTGTCCTGAGAGGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGACC 1740  Sbjet 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCCTACTGCT 1800  Sbjet 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGCCCCTACTGCT 1800	Sbjct	1381		1440
Sbjet 1441 ÁCTGGGCGÁÁGGTCCTGGTÁGTGCTGCTÁTTTGCCGGCGTCGÁCGCGÁÁACCCÁCG 1500  Query 1501 TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGCTTGTTGGTCTCCTTACACCAGGCG 1560  Sbjet 1501 TCACCGGGGGAAATGCCGGCCGCCACCACGGCTGGCTTGTTAGCCTCCTCGCACCAGGCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT 1620  Sbjet 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC 1620  Query 1621 TGAATTGCAATGAAAGCCTTAACACCGGCTGTTAGCAGGGCTTTCTATCAACACAAAT 1680  Sbjet 1621 TGAACTGCAATGATAGCCTCAACACCGGCTGGTTAGCAGGGCTTTTCTATCAACACAAAT 1680  Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTTTCTATCACCACAAGT 1680  Sbjet 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCCCTTACCGATTTTGCCC 1740  Sbjet 1681 TCAACTCTTCAGGCTGTCCTGAGAGGCTTAGCCAGCGCCCTTACCGATTTTGACC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCCTACCGCT 1800  Sbjet 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGCCCCTACTGCT 1800	Query	1441		1500
Sbjet 1501 TCACCGGGGGAAGTGCCGGCCACACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT 1620  Sbjet 1561 CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC 1620  Query 1621 TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT 1680  Sbjet 1621 TGAACTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGCTTTTCTATCACCACAAGT 1680  Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGGTTGGCCAGCGCCTTACCGATTTTGCCC 1740  Sbjet 1681 TCAACTCTTCAGGCTGTCCTGAGAGGGTTGGCCAGCGCCTTACCGATTTTGACC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCCTTACCGATTTTGACC 1740  Sbjet 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCCCTACTGCT 1800  Sbjet 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCTACTGCT 1800	Sbjct	1441		
Sbjet 1501 TCACCGGGGGAAGTGCCGGCCACACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCG 1560  Query 1561 CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT 1620  Sbjet 1561 CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC 1620  Query 1621 TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT 1680  Sbjet 1621 TGAACTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT 1680  Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGGTTGGCCAGCGCTTACCGATTTTGCCC 1740  Sbjet 1681 TCAACTCTTCAGGCTGTCCTGAGAGGGTTGGCCAGCCCTTACCGATTTTGACC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTTACCGATTTTGACC 1740  Sbjet 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCACTGCT 1800  Sbjet 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGCCCCTACTGCT 1800	- 1	1501		1560
Sbjet 1561 CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC 1620  Query 1621 TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT 1680  Sbjet 1621 TGAACTGCAATGATAGCCTCAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT 1680  Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGGTTGGCCAGCGCCTTACCGATTTTGCCC 1740  Sbjet 1681 TCAACTCTTCAGGCTGTCCTGAGAGGGCTGCCGACCCCTTACCGATTTTGACC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCCGCCTTACCGATTTTGACC 1740  Sbjet 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCCTACTGCT 1800  Sbjet 1741 AGGGCTGGGGGCCCTATCAGTTATGCCAACGGAAGCGCCCCTACTGCT 1800	_		TCACCGGGGGAAGTGCCGGCCACACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCG	
Query1621TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT1680Sbjct1621TGAACTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT1680Query1681TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC1740Sbjct1681TCAACTCTTCAGGCTGTCCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC1740Query1741AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT1800Sbjct1741AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCT1800	_			
Sbjct 1621 TGAACTGCAATGATAGCCTCAACACGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT 1680  Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC 1740  Sbjct 1681 TCAACTCTTCAGGCTGTCCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCCTACCGATTTTGACC 1800  Sbjct 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCACGCCCCTACTGCT 1800				
Query 1681 TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC 1740  Sbjct 1681 TCAACTCTTCAGGCTGTCCTGAGAGGCTGCCGACGCCTTACCGATTTTGACC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTGACGACGCCCCTACTGCT 1800  Sbjct 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGCCCCTACTGCT 1800	_			
Sbjct 1681 TCAACTCTTCAGGCTGTCCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC 1740  Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT 1800  Sbjct 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCT 1800	_			
Query 1741 AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT 1800 Sbjct 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCT 1800	_			
Sbjct 1741 AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCT 1800	_			
	_			
ZCOTI TOOL CONTOLLICOCCIONITION TO TOUR TO TOUR TOUR TOUR TOUR TOUR TOU	Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
	_			
Query 1861 ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	_	1861		1920
Sbjct 1861 ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	Sbjct	1861		1920

Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTCATCGGAGGGGCGGGCAACACACCCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊAAĠĊAŤĊĊĠĠAĊĠĊĊAĊAŤAĊŤĊŤĊĠĠŤĠĊĠĠĊŤĊĊĠĠŤĊĊĊŤĠĠAŤĊAĊAĊĊĊĀĠĠŤ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTCGAACACAGGCTGGAAGCTGCCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TĠAĊĊAĊŦĂĊAĊĀĠŢĠĠĊĀĠĠŢĊĊŢĊĊĠŢĠŢŢĊĊŢŢĊĀĊAĀĊĊĊŢĀĊĊĀĠĊĊŢŢĠŢĊĊĀ	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CÁGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTAT	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGcccdccTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCC	2940
Query	2941	gggggggCGCGATCCCTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	ĠaĠĠĠĠĠĠĠĠĊĠĊĠaĊĠĊĊĠŦĊaŦĊŦŦaĊŦĊaŦĠŦĠŦĠĊŦĠŢaĊŧĊĠĠĠĊŢĊŦĠĠŦaŦŦŦ	2999
Query	3000	GACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAATTGCTGCTGGCCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059

Query	3060	CTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060		3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATTAAGTTAGGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGC	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAACCAAGTGGAGGTGAGGTCCAGATCGTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCAGCCTGCTGTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCCGCGGGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	TCACCTCCATGCTCCCACAGGCAGCGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTAC	4198

Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	cgccaccaccacccciccggctccgtcactgtgccccatcccaacatcgaggaggttgc	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGCCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTTTGATTCGCCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTCAGAATGAAATCACCCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338

Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339		5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATCATACCTGACAGGGAAGTCCTCTACCGAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	agcagttcaagcagaaggcctccggcctcctgcagaccgcgtcccgtcaggcagaggtta	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCCTGCTGTCCAGACCAACTGGCAAAAACTCGAGACCTTCTGGGCCGAAGCATATGT	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	ĠĠĀĀĊŦŤĊĀŦĊĀĠĠĠĠŦĀĊĀĀŦĀĊŦŦĠĠĊĠĠĠĊŦŦĠŦĊĀĀĊĠĊŦĠĊĊŦĠĠŦĀĀĊĊĊĠ	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAA	5757
Query	5758	CCCTCCTCTCAACATATTgggggggTGGGGTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTCAACATATTGGGGGGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGCAGTGCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCCTTTGTGTCCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476

Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTAC	6536
Query	6537	ACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCTGTACCCCCCTTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	tctgcagaggaatatgtggagataaggcaggtgggggacttccactacgtga-cgggtat	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATT	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGGTGCGCCTACATAGGTTTGCGCCCCCTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6776	ATCATTCAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954 6954
Sbjct Query	6896 6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGCCGGCAACATCACCAGGGTTG	7074
Sbjct	7015		7074
Query	7075	AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075		7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCC	7194
Sbjct	7135	AGCGGGAGATCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCC	7194
Query	7195	TGCCCGTCTGGGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCGTTTGGGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAAGCCCG	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGC	7314
Sbjct	7255	actacgaaccaccigiggiccaiggcigiccgciiccacciccaaagicccciccigigc	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315	ĊŤĊĊĠĊĊŤĊĠĠAĀĠAĠĊĠĠĀĊĠĠŤĠĠŤĊĊŤĊĀĊŦĠAĀŤĊĀĀĊĊŤĀŤĊŤĀĊŤĠĊĊŤŤĠĠ	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATGCCCCCCTGGAGGGGGGGGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCCTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTCCAATGTCTTACT	7614

Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCGCCGGAAGAACAGAAACTGCCCATCAATG	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTG	7734
Sbjct	7675	CÁCTAÁGCÁÁCTCGTTGCTÁCGTCÁCCÁCÁÁTTTGGTGTÁTTCCÁCCÁCCTCÁCGCÁGTG	7734
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	CTTGCCAAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034 8034
Sbjct	7975 8035	ACCTTCTGGAAGACAATGTAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT TCTGCGTTCAGCCTGAGAAGGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACC	8094
Query Sbjct	8035		8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCTG	8153
Sbjct	8095		8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154		8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214		8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GÁCTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	ĊŤĊĠĂĊĊĊĊĂĂĠĊĊĊĠĊĠŤĠĠĊĊĂŤĊĂĂĠŤĊĊĊŤĊĂĊĊĠĂĠĂĠĠĊŤŦŤĂŤĠŤŤĠĠĠĠĠĊ	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394	CCTCTTÁCCAÁTTCAÁGGGGGGAGÁÁCTGCGGCTÁTCGCAGGTGCCGCGCGÁGCGGCGTÁ	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGGGGGCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8574	GAAAGCGCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633 8693
Query Sbjct	8634 8634	AGGTACTCCGccccccggggacccccACAACCAGAATACGACTTGGAGCTTATAACA	8693
_	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT	8693
Query Sbjct	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTT	8753
	0074	)100H10H10H10HDDDDDDDDDDDDDDDDDDDDDDDDDD	0 / 0 0

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8754
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                                                   8813
Query
         8754
                                                   8813
Sbjct
    8814
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                                                   8873
Query
         8814
        GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA
                                                   8873
Sbjct
Query
    8874
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                                                   8933
        8874
Sbjct
                                                   8933
Query
    8934
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                                                   8993
         TGCGÁGÁTCTÁCGGGGCCTGCTÁCTCCÁTÁGÁÁCCACTTGÁTCTÁCCTCCÁÁTCÁTTCÁÁ
    8934
                                                   8993
Sbjct
Query
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                                                   9053
    8994
        Sbjct
    8994
                                                   9053
        GTGGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCC
Query
    9054
                                                   9113
         GTGGCCGCATGCCTCAGAAAACTTGGGGTACCGCCCTTGCGAGCTTGGAGACACCGGGCC
    9054
                                                   9113
Sbjct
        CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC
                                                   9173
Query
    9114
         9114
        CGGAGCGTCCGCCTAGGCTTCTGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC
                                                   9173
Sbjct
    9174
        9233
Query
        9174
Sbjct
                                                   9233
Query
    9234
        CTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG
                                                   9293
         ĊŢĠĠĄĊŢŢĠŢĊĊĠĠĊŢĠĠŢŢĊĄĊĠĠĊŢĠĠĊŢĄĊĄĠĊĠĠĠĠĠĠĄĠĄĊĄŢŢŔŢĊĄĊĄĠĊĠŢĠ
    9234
                                                   9293
Sbjct
        9294
                                                   9353
Query
    9294
                                                   9353
Sbjct
    9354
        \verb|ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT|
Query
         Sbjct
        ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT
>dbj|BD295096.1|
            NANBV DIAGNOSTICS: POLYNUCLEOTIDES USEFUL FOR SCREENING FOR HEPATITIS
C VIRUS
Length=9401
Score = 1.520e+04 bits (8231), Expect = 0.0 Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus
    1
        GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
Query
         ĠĊĊĠĠĊĊĊĊŤĠĂŤĠĠĠĠĠĊĠĂĊĂĊŤĊĊĂĊĊĂŤĠĂĂŤĊĂĊŤĊĊĊŤĠŤĠĂĠĠĂĂĊŤĂĊŤĠ
                                                   60
Sbjct
Query
    61
        TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
                                                   120
        120
Sbjct
    61
        COCCOCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
                                                   180
Query
    121
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    121
                                                   180
Sbjct
        GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC
Query
    181
         GÁCGÁCCGGGTCCTTTCTTGGÁTCÁACCCGCTCÁATGCCTGGÁGÁTTTGGGCGTGCCCCC
Sbjct
    181
                                                   240
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                                                   300
Query
    241
        241
                                                   300
Sbjct
    301
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                                                   360
Query
```

Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361		420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGAAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCTCGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	ĠĊAATĠAĠĠĠĊŦĠĊĠĠĠŦĠĠĠĊĠĠĠĀŦĠĠĊŦĊĊĊĠŦĠĠĊĊĊĠŦĠĠĊĊŦĠĠĊĊ	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	ĠĠĠĠĊĊĊAĊAĠAĊĊĊĊĠĠĊĠŦAĠĠŤĊĠĊĠĊAAŤŤŤĠĠĠŦAAĠĠŤĊAŤĊĠAŦAĊĊĊŤŦA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	ĊĠŦĠĊĠĠĊŦŦĊĠĊĊĠĂĊĊŦĊĂŦĠĠĠĠŦĂĊĂŦĂĊĊĠĊŦĊĠŦĊĠĠĊĠĊĊĊĊŦĊŦŦĠĠĂĠĠĊĠ	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCGGCCTACCAAGTGCGCAACTCCACGGGGCTTTACCACGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCG	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGATGGCAAACTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGTTGTCG GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTTTTTTT	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Query Sbict	1201		1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261		1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1320
Sbjct	1321		1380
Query	1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	IGATEGETGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Zuci y			1000

Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	tcaccgggggaagtgccgccacactgtgtctggatttgttagcctcctcgcaccaggcg	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	ŤĠĂĂĊŤĠĊĂĂŤĠĂŤĂĠĊĊŤĊĂĂĊĂĊĊĠĠĊŤĠĠŤŤĠĠĊĂĠĠĠĊŤŦŤŤĊŤĂŤĊĂĊĊĂĊĂĂĠŤ	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	ŤĊĂĂĊŤĊŤŤĊĂĠĠĊŤĠŤĊĊŤĠĂĠĂĠĠĊŤAĠĊĊĂĠĊŤĠĊĊĠĂĊĊĊĊŤŤĂĊĊĠĂŤŤŤŤĠĂĊĊ	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	ĠĠĊŔĊŤŔĊĊĊĊĊŔŔĸŔĊĊŤŤĠĊĠĠŦŔŤŤĠŤĠĊĊĊĠĊĠŔŔĠŔĠŦĠŤĠŤĠŤĠĠŦĊĊĠĠŦŔŤ	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTCATCGGAGGGGCGGCCAACAACACCCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTCGAACACAGGCTGGAAGCTGCCTGC	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		2400
Query Sbict	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Query	2401	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2520
Sbjct	2521	CAGACGCGCGCGCTCTGCTCGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
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Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTAT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	tctacaccttctacgggatgtggcctctcctcctgctcctgttggcgttgcccagcgg	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTC	2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGGGGTTGGCCCCCCCC	2940
Sbjct	2881	AGTATTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACCCTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAATTGCTGCTGGCCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGC	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	ggcgcccatcacgcctacgcccagcagacaaggggcctcctagggtgcataatcaccag	3478
Query	3479	CCTGACTGGCCGGGACAAAACCAAGTGGAGGTGAGGTCCAGATCGTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCCTGCCCCCCCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778

Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	tgatagcaggggcagcctgctgtcgccccggcccatttcctacttgaaaggctcctcggg	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	ĠĠĠŦĊĊĠĊŦĠŦŦĠŦĠĊĊĊĠĊĠĠĠĠĊĀĊĠĊĊĠŦĠĠĠĊĀŦĀŦŦŦĀĠĠĠĊĊĠĊĠĠŦĠŦĠĊĀĊ	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	ccgtggagtggctaaggcggtggactttatccctgtggagaacctagagacaaccatgag	3958
Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	gtccccgtttcacggataactcctctcaccagtagtgccccagagcttccaggtgc	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	TCÁCCTCCÁTGCTCCÁCAGGCÁGCGGCÁAAAGCÁCCÁAGGTCCCGGCTGCATÁTGCÁGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TCÁGGGCTÁTÁÁGGTGCTAGTACTCÁÁCCCCTCTGTTGCTGCÁÁCACTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTÁCATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCGCGGAGAGTCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918

Sbjct	4859	GCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	trggtatgagctcacgcccgagactacagttaggctacgagcgtacatgaacacccc	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	ggggcttcccgtgtgccaggaccatcttgaattttgggagggcgtctttacaggcctcac	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	tcatatagatgcccactttctatcccagacaaagcagagtggggagaaccttcctt	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	ggtagcgtaccaagccaccgtgtgcgctagggctcaagcccctccccatcgtgggacca	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	ĠATĠŢĠĠAĀĠŢĠŢŢŢĠAŢŢĊĠĊĊŢĊĀĀĠĊĊĊŢĊĊĀŢĠĠĠĊĊĀĀĊĀĊĊĊŢĠĊŢĀŢĀ	5218
Query	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	ĊAĠAĊŢĠĠĠĊĠĊŢĠŢŢĊAĠAAŢĠAAAŢĊAĊĊŢĠAĊĠĊĀĊĊĊAĠŢĊĀĊĊĀAAŢĀĊĀŢĊĀŢ	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGCGT	5338
Sbjct	5279	ĠĂĊĂŢĠĊĂŢĠŢĊĠĠĊĊĠĂĊĊŢĠĠĀĠĠŢĊĠŢĊĀĊĠĀĠĊĀĊĊŢĠĠĠŢĠĊŢĊĠŢŢĠĠĊĠĠĊĠŢ	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	ĊĊŦĠĠĊŦĠĊŦŦŦĠĠĊĊĠĊĠŦĂŦŦĠĊĊŦĠŦĊĂĂĊĂĠĠĊŦĠĊĠŦĠĠŦĊĂŦĂĠŦĠĠĠĊĂĠĠĠŦ	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	ĊĠŦĊŦŦĠŦĊĊĠĠĠĂĂĠĊĊĠĠĊĂĂŦĊĂŦĂĊĊŦĠĂĊĂĠĠĠĂĀĠŦĊĊŦĊŦĂĊĊĠĀĠ~ĀĠŦŦĊĠ	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AĞCAĞTTCAAĞCAĞAAĞĞCCCTCĞĞCCTCCTĞCAĞACCĞCĞTCCCĞTCAGĞCAĞAĞĞTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCCTGCTGTCCAGACCAACTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAACTTCATCAGTGGGATACAATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAA	5757
Query	5758	CCCTCCTCTCAACATATTgggggggTGGGTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057

Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGCAGTGCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	cggagtgtaccactccatgctccggttcctggctaagggacatctgggactggatatgcg	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Sbjct	6298	AĠĠŦĠŦŦĠĀĠĊĠĀĊŦŦŦĀĀĠĀĊĊŦĠĠĊŦĀĀĀĠĊŦĀĀĠĊŦĊĀŦĠĊĊĀĊĀĠĊŦĠĊĊŦĠĠĠĀ	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCCTTTGTGTCCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTAC	6536
Query	6537	ACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCTGTACCCCCCTTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597 6656	TCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGGACTTCCACTACGTGA-CGGGTAT GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6655 6715
Query Sbjct	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Query	6716	GGACGGGGTGCCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716		6775
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbict	6776		6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6836		6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896		6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015		7074
Query	7075	AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	AGTCAGAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGACGACG	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCC	7194

Sbjct	7135	AGCGGGAGATCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCC	7194
Query	7195	TGCCCGTCTGGGCGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCG	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGC	7314
Sbjct	7255	actacgaaccacctgtggtccatggctgtccgcttccacctccaaagtcccctcctgtgc	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315	ĊŢĊĊĠĊĊŢĊĠĠĀĀĠĀĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĊŢĠĊĊŢĠĠĊĊŢĠĠ	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCTTCTGGCTGaaaaaaaaCTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATGGGGGGGGGGGGGGGGGGGGTCAT	7554
Sbjct	7495	ATTCCTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCGCGGAAGAACAAAAACTGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCGCGCGGAAGAACAGAAACTGCCCATCAATG	7674 7734
Query	7675 7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTG	7734
Sbjct	7673	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query Sbjct	7735	CTTGCCAAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795		7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855		7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915		7974
Query	7975	ACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975		8034
Query	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACC	8094
Sbjct	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATC	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	gccgtgatgggaagctcctacggattccaatactcaccaggacagcgggttgaattcctc	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	ĠŦĠĊāāĠĊĠŦĠĠāāĠŦĊĊāāĠāāāāāĊĊĊāāŦĠĠĠĠŦŦĊŦĊĠŦāŦĠāŦāĊĊĊĠĊŦĠĊŦŦŦ	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333

Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	ĠĊĊĠĊĀĠĠĠĊŦĊĊĀĠĠĀĊŦĠĊĀĊĊĀŦĠĊŦĊĠŦĠŦĠĠĠĠĀĊĠĀĊŦŦĀĠŦĊĠŦŦĀŦĊŦĠŦ	8573
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8574	ĠAAAĠĊĠĊĠĠĠĠĠĊĊAĠĠAĠĠAĊĠĊĠĠĊĠAĠĊĊŢĠAĠAĠĊĊŢŢĊAĊĠĠAĠĠĊŢAŢĠAĊĊ	8633
Query	8634	AGGTACTCCGcccccccggggaccccccACAACCAGAATACGACTTGGAGCTTATAACA	8693
Sbjct	8634	aggtactccgccccctggggacccccacaaccagaatacgacttggagctcataaca	8693
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTT	8753
Sbjct	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGCCTGGAAAGAGAGGGTCTACTACCTC	8753
Query	8754	ACCCGTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCA	8813
Sbjct	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGAC	8813
Query	8814	GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814	GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8873
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8874	CTGATGACCCATTTCTTTAGCGTCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGAT	8933
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8934	TGCGAGATCTACGGGGCCTGCTACTCCATAGAACCACTTGATCTACCTCCAATCATTCAA	8993
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGG	9053
Query	9054	GTGGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCC	9113
Sbjct	9054	GTGGCCGCATGCCTCAGAAAACTTGGGGTACCGCCCTTGCGAGCTTGGAGACACCGGGCC	9113
Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9114	CGGAGCGTCCGCGCTAGGCTTCTGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9233
Sbjct	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9233
Query	9234	CTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG	9293
Sbjct	9234	CTGGACTTGTCCGGCTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG	9293
Query	9294	TCTCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGC	9353
Sbjct	9294	TCTCATGCCCGGCCCGCTGGATCTGGTTTTGCCTACTCCTGCTTGCT	9353
Query	9354	ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT 9401	
Sbjct	9354	ATCTACCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT 9401	

 $<sup>\</sup>verb|>dbj|BD080334.1| \qquad \texttt{Hepatitis C virus asialoglycoprotein}|$ 

Length=9401 Score = 1.520e+04 bits (8231), Expect = 0.0 Identities = 9018/9408 (95%), Gaps = 14/9408 (0%) Strand=Plus/Plus GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG 1 Query GCCÁGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG Sbjct 1 60 61 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA 120 Query 61 120 Sbjct Query 121 dddddTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180 121 CCCCCTCCCGGGAGACCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG 180 Sbjct GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC Query 181 240 GÁCGÁCCGGGTCCTTTCTTGGÁTCÁACCCGCTCÁATGCCTGGÁGÁTTTGGGCGTGCCCCC 181 240 Sbjct GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG 300 Query 241 Sbjct 241 300 301 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC 360 Query Sbjct 301 360 361 CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG 420 Query Sbjct 361 420 421 GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC 480 Query GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC Sbjct 421 480 Query 481 GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540 GCGCGACGAGAAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA 540 481 Sbjct 541 AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG 600 Query 600 Sbjct 541 601 GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT 660 Query 601 Sbjct 660 GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA 720 Query 661 661 720 Sbjct 721 CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG 780 Query 721 780 Sbjct Query 781 CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG 840 781 840 Sbjct GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG 841 900 Query 841 900 Sbjct TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT Query 901 TGCCCGCTTCGGCCTACCAAGTGCGCAACTCCACGGGGCTTTACCACGTCACCAATGATT Sbjct 901 960 GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG Query 961 1020

TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG

961

1021

Sbjct

Query

1020

1080

Sbjct	1021	TCCCTTGCGTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	ccaccaggatggcaaactccccgcgacgcagcttcgacgtcacatcgatctgcttgtcg	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ggagcgccaccctctgttcgcccctctacgtggggacctatgcgggtctgtct	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	tcggccaactgttcaccttctctccaggcgccactggacgacgacgcaaggttgcaattgct	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŢŖŢĊŢŖŢĠĠĊŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢŖŢ	1320
Query	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	ccctacgacgccttacgctcacctccccacaaccatcttccaca	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTTTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	actiggicigaagicitigtagtigctigctigctiatitigccigicigticigacigcigaaaacccacig	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	tcaccggggaagtgccgccacactgtgtctggatttgttagcctcctcgcaccaggcg	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacgtccagctgatcaacaccaacgcagttggcacctcaatagcacgccc	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	tgaactgcaatgatagcctcaacaccggctggttggcagggcttttctatcaccacaagt	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	aggcttgggccctatcagttatgccaacggaagcggccccgaccagcgccctactgct	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	ĠĠĊŔĊŤŔĊĊĊĊĊŔŔĸĸŔĊĊŤŤĠĊĠĠŦŔŤŤĠŤĠĊĊĠĠĠŔŔĠŔĠŦĠŤĠŤĠŤĠĠŦĊĊĠĠŤŔŤ	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	acagctggggtgaaaatgatacggacgtcttcgtccttaacaataccaggccaccgctgg	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ĠĊĀĀTTĠĠŦŢĊĠĠŦŢĠŢĀĊĊŢĠĠĀŢĠĀĀĊŢĊĀĀĊŢĠĠĀŤŢĊĀĊĊĀĀĀĠŢĠŢĠĊĠĠĀĠĊĠĊ	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	ctccttgtgtcatcggagggcgggcaacaacacctgcactgcccactgattgcttcc	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ġĊaagĊa†ċċĠĠaċĠċċaċa†aċ†ċ†ċĠĠ†ĠċĠĠċ†ċċĠĠ†ċċċ†ĠĠa†ċaċaċċċaĠĠ†	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220

Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	ttaaaatcaggatgtacgtgggaggggtcgaacacaggctggaagctgcctgc	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	cĠċĠĠĠĠċĠaaċĠttĠċĠatċtĠĠaaĠaċaĠĠĠaċĠĠtċċĠaĠċtċaĠċċċĠttaċtĠċ	2340
Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	tgaccactacacagtggcaggtcctcccgtgttccttcacaaccctaccagccttgtcca	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	ccggcctcatccaccacagaacattgtggacgtgcagtacttgtacggggtggggt	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	ĊĂĂĠĊĂŤĊĠĊĠŤĊĊŤĠĠĠĊĊĂŤŤĂĂĠŤĠĠĠĂĠŤĂĊĠŤĊĠŤŤĊŤĊŤĠĊŤŤĊĊŤŤĊ	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	ĊĂĠĂĊĠĊĠĊĠĊĠŤĊŤĠĊŤĊĊŤĠĊŤŤĠŤĠĠĂŤĠĂŤĠĊŤĂĊŤĊĂŤĂŤĊĊĊĂĂĠĊĠĠĂĠĠĊĠĠ	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŤŤŤĠĠŔĠŔŔĊĊŤĊĠŤŔŔŤŔĊŤŤŔŔŤĠĊŔĠĊŔŤĊĊĊŤĠĠĊĊĠĠĠŔĊĠĊŔĊĠĠŤĊŤŤĠŤŔŤ	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTTGTTCTCGTCGGGTTGA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTccccccaCCCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCC	2940
Query	2941	gggqqggGCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAATTGCTGCTGGCCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358

Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGC	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	ggcgcccatcacgccgtacgcccagcagacaaggggcctcctagggtgcataatcaccag	3478
Query	3479	CCTGACTGGCCGGGACAAAACCAAGTGGAGGTGAGGTCCAGATCGTGCTAC	3538
Sbjct	3479	cctaactggccggacaaaaaccaagtggagggtgaggtccagattgtgtcaactgctgc	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	ĊĊĂĂĂĊĊŦŦĊĊŦĠĠĊĂĂĊĠŦĠĊĂŦĊĂĂŦĠĠĠĠŦĠŦĠĊŦĠĠĂĊŦĠŦĊŦĂĊĊĂĊĠĠĠĠĊĊĠĠ	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCCTGCCCCCCCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGCCAGCCTGTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4018 4078
Query	4019 4019		4078
Sbjct Query	4019	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbict	4079		4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139		4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199		4258
Query	4259	AGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259		4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319		4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379		4438
Query	4439	TCTGTCCACCACCGGAGAGTCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498

Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct	4679	c da c t t c da c t c da c t de c da c t de c da c t c da c da	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	rigaccctacctrcaccatrigagacaarcacgctccccaggargctgtctcccgcactca	4798
Query	4799	ACGCCGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	acgregegeaegeaegegegegegegegegegegegegegeg	4858
Query	4859	GCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	ĠĊĠĊĊĊĊĊĊĠĠĊĀŢĠŢŢĊĠĀĊŢĊĠŢĊĊĠŢĊĊŢĠŢĠĀĠŢĠĊŢĀŢĠĀĊĠĊĀĠĠĊŢĠŢĠĊ	4918
Query	4919	TTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	ŤŤĠĠŤŘŤĠŘĠĊŤĊŘĊĠĊĊĠĊĊĠŔĠŘĊŤŘĊŘĠŤŤŘĠĠĊŤŘĊĠŘĠĊĠŤŘĊŘŤĠŘŘĊŘĊĊĊ	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	ĠĠĠĠĊŤŤĊĊĊĠŤĠŤĠĊĊĂĠĠĂĊĊĂŤĊŤŤĠĂĂŤŤŤŤĠĠĠĂĠĠĊĠŤĊŤŤŤĂĊĀĠĠĊĊŤĊĀĊ	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGGAGAACCTTCCTT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTTTGATTCGCCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTCAGAATGAAATCACCCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATCATACCTGACAGGGAAGTCCTCTACCGAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637

Sbjct	5578	TCGCCCCTGCTGTCCAGACCAACTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	ggaacticatcagtgggatacaatacttggcgggcttgtcaacgctgcctggtaaccccg	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAA	5757
Query	5758	CCCTCCTCTCAACATATTgggggggTGGGTGGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTCAACATATTGGGGGGGGTGGGTGCCCAGCTCGCCGCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998 6058	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6057 6117
Query Sbjct	6058	TIGGCCCGGGCGAGGGGGCAGIGCAAIGGAIGAACCGGCIAAIAGCCIICGCCICCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6177
Sbjct	6118		6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178		6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238		6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAG-GAGACGCATTATG	6416
Sbjct	6358	tcccctttgtgtcctgccagcgcggtataagggggtctggcgagtg-gacggcatcatg	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	ĊĂĊĂĊŤĊĠĊŤĠĊĊĂĊŤĠŤĠĠĂĠĊŤĠĂĠĂŤĊĂĊŤĠĠĂĊĂŤĠŤĊĂĂĂĂĂĊĠĠĠĂĊĠĂŤĠĂĠĠ	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	ÁTCGTCGGTCCTÁGGÁCCTGCÁGGÁÁCÁTGTGGÁGTGGGÁCCTTCCCCÁTTÁÁTGCCTÁC	6536
Query	6537	ACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCTGTACCCCCTTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATT	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775

Sbjct	6716	GGACGGGGTGCGCCTACATAGGTTTGCGCCCCCTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6776	ATCATTCAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATCACCCCCTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Query	7075	AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	AGTCAGAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACG	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCC	7194
Sbjct	7135	AGCGGGAGATCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCC	7194
Query	7195	TGCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCG	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGC	7314
Sbjct	7255	actacgaaccaccigigiccaiggcigiccácciccacciccaaagicccciccigigc	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315	ctccgcctcggaagaagcggacggtggtcctcactgaatcaaccctatctactgccttgg	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	ccgagctcgccaccagaagctttggcagctcctcaacttccggcattacgggcgacaata	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCTTCTGGCTGeeccccGACTCCGACGTTGAGTCCT	7494
Sbjct	7435	cgacaacatcctctgagcccgccccttctggctgccccccgactccgacgctgagtcct	7494
Query	7495	ATTCTTCCATGccccccTGGGGGGGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCCTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	ĠĠŤĊĸĸĊĠĠŤĊĸĠŤĸĠŤĠĸĠĠĊĊĸĸĊĠĊĠĠĸĠĠĸŤĠŤĊĠŤĠĊŤĠĊŤĊĸĸŤĠŤĊŤŤĸĊŤ	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCGCGGAAGAACAAAAACTGCCCATCAACG	7674
Sbjct	7615	ĊŢŢĠĠŔĊŔĠĠĊĠĊŔĊŢĊĠŢĊŔĊĊĊĠŢĠĊĠĊĠĠĠŔŔĠŔŔĊŔĠŔĸŔĊŢĠĊĊŔŢĊŔĸŢĠ	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTG	7734
Sbjct	7675	cactaagcaactcgttgctacgtcaccacaatttggtgtattccaccacctcacgcagtg	7734
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	cttgccaaaggcagaagaaagtcacatttgacagactgcaagttctggacagccattacc	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	aggacgtactcaaggaggttaaagcagcggcgtcaaaagtgaaggctaacttgctatccg	7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914

Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915		7974
Query	7975	ACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975		8034
Query	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACC	8094
Sbjct	8035		8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	gccgtgatgggaagctcctacggattccaatactcaccaggacagcgggttgaattcctc	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	ĠĠĠĊaaĠĊĠĠĠĠaaĠĊĊĊaaĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠ	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	ĠĂĊŦĊĊĂĊĂĠŦĊĂĊŦĠĂĠĂĠĊĠĂĊĂŦĊĊĠŦĂĊĠĠĀĠĠĀĠĠĊĀĂŦĊŦĂĊĊĂĂŦĠŦŦĠŦĠĀĊ	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633 8633
Sbjct	8574	GAAAGCGCGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8693
Query	8634 8634	AGGTACTCCGccccccggggacccccCACAACCAGAATACGACTTGGAGCTTATAACA	8693
Sbjct Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGGTCTACTACCTT	8753
Sbjct	8694	CATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTC	8753
Query	8754	ACCCGTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCA	8813
Sbjct	8754		8813
Query	8814	GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814		8873
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8874		8933
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8934		8993
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053

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Sbjct
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                                                   9113
Sbjct
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                                                   9173
    9114
Query
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Sbjct
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Sbjct
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        9234
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Sbjct
>gb|AR176483.1|AR176483 Sequence 9 from patent US 6312889 Length=9401
Score = 1.520e+04 bits (8231), Expect = 0.0 Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus
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                                                   60
Query
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Sbjct
    1
                                                   60
Query
    61
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                                                   120
         TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC
                                                   120
Sbjct
    61
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                                                   180
Query
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Sbjct
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    181
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Query
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Sbjct
    181
    241
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Query
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        241
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Sbjct
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Query
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Sbjct
Query
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        361
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    421
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Query
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Query
    481
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Sbjct
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                                                   600
Query
    541
        541
                                                   600
Sbjct
    601
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Query
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Sbjct	601	GCAATGAGGGCTGCGGGTGGCCGGGATGGCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCGGCCTACCAAGTGCGCAACTCCACGGGGCTTTACCACGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCG	1020
Query	1021	TCCCTTGCGTTCGCGAGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	ccaccaggarggcaaactccccgcgacgcagcttcgacgtcacatcgatctgcttgtcg	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ggagcgccaccctctgttcggccctctacgtgggggacctatgcgggtctgtct	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	tcggccaactgttcaccttctctccaggcgccactggacgacgacgcaaggttgcaattgct	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŦĂŦĊŦĂŦĊĊĊĠĠĊĊĂŦĂŦĂĂĊĠĠĠŦĊĂĊĊĠĊĂŦĠĠĊĂŦĠĠĠĂŦĂŦĠĂŦĠĂĀĊŦĠĠŦ	1320
Query	1321	CCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	ccctacgacgccttgctaatgcctcacctcccgatcccacaaccatcttgcaca	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TĠATĊĠĊŢĠĠŢĠĊŢĊAĊŢĠĠĠĠAĠŢĊĊŢĠĠĊĠĠĠĊAŢĀĠĊĠŢĀŢŢŢĊŢĊĊĀŢĠĠŢĠĠĠĀ	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTTTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	ŤĊĂĊĊĠĠĠĠĠĂĂĠŤĠĊĊĠĠĊĊĂĊĂĊŦĠŦĠŦĊŤĠĠAŦŤŤĠŤŤAĠĊĊŤĊĊŤĊĠĊĂĊĊĂĠĠĊĠ	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	ccaagcagaacgtccagctgatcaacaccaacgcagttggcacctcaatagcacgccc	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	tgaactgcaatgatagcctcaacaccgctgcttgctagcgccttttctatcaccacaagt	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	tcaactcttcaggctgtcctgagaggctagccagctgccgaccccttaccgattttgacc	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800

Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	ĠĠĊĀĊŦĀĊĊĊĊĊĀĀĀĀĊĊŦŦĠĊĠĠŦĀŦŦĠŦĠĊĊĠĠĠĀĀĠĀĠŦĠŦĠŦĠŦ	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ÁTTĠĊŦŤĊĂĊŤĊĊĊĀĠĊĊĊĠŦĠĠŤĠĠŤĠĠĠĀĀĊĠĀĊĊĠĀĊĀĠĠŤĊĠĠĠĊĠĊĠĊĊĊĀĊĊŤ	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTCATCGGAGGGGCGGCCAACAACACCCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGT GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2160 2220
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGCCTGCAACTGGA	2280
Sbjct	2221		2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		2340
Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341		2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
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Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	caagcatcgcgtcctgggccattaagtgggagtacgtcgttctcctgttccttcttg	2520
Query	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	ĊĀĠĀĊĠĊĠĊĠĊĠŤĊŤĠĊŤĊĊŤĠĊŤŤĠŤĠĠĀŤĠĀŤĠĊŤĀĊŤĊĀŤĀŤĊĊĊĀĀĠĊĠĠĀĠĠĊĠĠ	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTAT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCGTTGCCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCTGTTGGCGTTGCCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CGTACGCGCTGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGA	2820
Query Sbjct	2821 2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880 2880
_	2821	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCC	2880
Query	400T	AGIAITITETGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGCCGGTCAACGTCC	∠ ⊅ <del>4</del> U

Sbjct	2881	AGTATTTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	GAGGGGGGCGCGACGCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAATTGCTGCTGGCCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	cttaaagtaccctactttgtgcgcgtccaaggccttctccggttctgcgcgttagcgcgg	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	GGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGC	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCCTGCCCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCTCCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCAGCCTGCTGTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078

Sbjct	4019	TCACCTCCATGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGACATCTCATCTGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039		5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099		5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218

Sbjct	5159	GATGTGGAAGTGTTTGATTCGCCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTCAGAATGAAATCACCCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	cctggctgctttggccgcgtattgcctgtcaacaggctgcgtggtcatagtgggcagggt	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	ĊĠŦĊŦŦĠŦĊĊĠĠĠAAĠĊĊĠĠĊAAŦĊAŦAĊĊŦĠAĊAĠĠĠAAĠŦĊĊŦĊŦAĊĊĠAĠ~AĠŦŦĊĠ	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	atgagatggaagagtgctctcagcacttaccgtacatcgagcaagggatgatgctcgccg	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AĞCAĞTTCAAĞCAĞAAĞĞCCCTCĞĞCCTCCTĞCAĞACCĞCĞTCCCĞTCAGĞCAĞAĞĞTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	ŤĊĠĊĊĊĊŤĠĊŤĠŤĊĊĂĠĂĊĊĂĂĊŤĠĠĊĂAĂĂĂĊŤĊĠĂĠAĊĊŤŤĊŤĠĠĠĊĠĂĂĠĊĂŦĂŤĠŤ	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAACTTCATCAGTGGGATACAATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAA	5757
Query	5758	CCCTCCTCTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGCAGTGCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357

Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	tcccctttgtgtcctgccagcgcggtataagggggtctggcgagtg-gacggcatcatg	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	ĊAĊAĊŦĊĠĊŦĠĊĊĀĊŦĠŦĠĠĀĠĊŦĠĀĠĀŦĊĀĊŦĠĠĀĊĠĀŦĠŦĠĀĠĠ	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	atcgtcggtcctaggacctgcaggaacatgtggagtgggaccttccccattaatgcctac	6536
Query	6537	ACCACGGGCCCCTGTACTCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	accacgggcccctgtacccccttcctgcgccgaactacacgttcgcgctatggagggtg	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	tötgcagaggaatatgtggagataaggcaggtgggggacttccactacgtga-cgggtat	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6656	gactactgacaatctcaaatgcccgtgccaggtcccatcgcccgaatttttcacagaatt	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	ggacggggtgcgcctacataggtttgcgccccctgcaagcccttgctgcggaggaggagg	6775
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6776	atcattcagagtaggactccacgaatacccggtagggtcgcaattaccttgcgagcccga	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6836	accegacetegeceteteaceteaceteaceteaceteceteceatataacaecaeaeec	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	ggccgggcgaaggttggcgag-gggatcaccccctctgtggccagctcctcggctagcc	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	agctatccgctccatctctcaaggcaacttgcaccgctaaccatgactccctgatgctg	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015	agctcatagaggccaacctcctatggaggcaggagatgggcggcaacatcaccagggttg	7074
Query	7075	AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	agtcagaaaacaaagtggtgattctggactccttcgatccgcttgtggcggaggaggacg	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCC	7194
Sbjct	7135	agcgggagatctccgtacccgcagaaatcctgcggaagtctcggagattcgcccaggccc	7194
Query	7195	TGCCCGTCTGGGCGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	r r r r r r r r r r r r r r r r r r r	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGC	7314
Sbjct	7255	ACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGC	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315	CTCCGCCTCGGAAGAAGCGGACGGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGG	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCT	7494

Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATGGGGGGGGGGGGGGGGGGGTCAT	7554
Sbjct	7495	ATTCCTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTGCTCAATGTCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCGTGCGCGGAAGAACAAAAACTGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCGCCGCGGAAGAACAGAAACTGCCCATCAATG	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTG	7734
Sbjct	7675	CACTAAGCAACTCGTTGCTACGTCACCACAATTTGGTGTATTCCACCACCTCACGCAGTG	7734
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	CTTGCCAAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	caaaagacgtccgttgccatgccagaaaggccgtaacccacatcaactccgtgtggaaag	7974
Query	7975	ACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	accttctggaagacaatgtaacaccaatagacactaccatcatggctaagaacgaggttt	8034
Query	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACC	8094
Sbjct	8035	tctgcgttcagcctgagaagggggtcgtaagccagctcgtctcatcgtgttccccgatc	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	ŤĠĠĠĊĠŤĠĊĠĊĠŤĠŤĠĊĠĂAĂĂĠĂŤĠĠĊŦŦŤĠŤĂĊĠĂĊĠŤĠĠŤŤĂ~ĊĂĂAĠĊŤĊĊĊĊŤŤĠ	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	ĠĊĊĠŤĠĂŤĠĠĠĂĂĠĊŤĊĊŤĂĊĠĠĂŤŤĊĊĂĂŤĂĊŤĊĂĊĊĂĠĠĂĊĂĠĊĠĠĠŤŤĠĂĂŤŤĊĊŤĊ	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633

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8574
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                                                  8693
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Query
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                                                  8813
Sbjct
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        8814
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                                                  8873
Sbjct
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Query
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                                                  8993
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    8934
        8934
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        8994
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Sbjct
        9054
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Query
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                                                  9173
Query
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    9114
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    9234
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Query
        Sbjct
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    9354
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        ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGGTAAACACTCCGGCCT
Sbjct
    9354
>dbj|E66593.1|
          Hepatitis C virus asialoglycoprotein
Length=9401
Score = 1.520e+04 bits (8231), Expect = 0.0 Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus
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                                                  60
Query
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                                                  60
Sbjct
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Query
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                                                  180
        180
Sbjct
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    181
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Query
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Sbjct	181	GACGACCGGGTCCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC	240
Query	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Sbjct	241	GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	300
Query	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	ctcaaaaaaaaaacaaacgtaacaccaaccgtcgcccacaggacgtcaagttcccgggtg	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	ĠĊĠĠŦĊĀĠĀŦĊĠŦŦĠĠŦĠĠĀĠŦŦŦĀĊŦŦĠŦŦĠĊĊĠĊĠĊĀĠĠĠĠĊĊĊŦĀĠĀŦŦĠĠĠŦĠŦĠĊ	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGAAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCTCGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGCTGCGGGTGGGCGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTTGGGTAAGGTCATCGATACCCTTA	720
Query	721 721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780 780
Sbjct	781	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query Sbjct	781		840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841		900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901		960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021		1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGATGGCAAACTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGTTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	tcggccaactgttcaccttctctccaggcgccactggacgacgacgcaaggttgcaattgct	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŦĂŦĊŦĂŦĊĊĠĠĊĊĂŦĂŦĂĂĊĠĠĠŦĊĂĊĊĠĊĂŦĠĠĊĂŦĠ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380

Sbjct	1321	CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	ŤĠĂŤĊĠĊŤĠĠŤĠĊŤĊĂĊŤĠĠĠĠĂĠŤĊĊŤĠĠĊĠĠĠĊĂŤĂĠĊĠŤĂŤŤŤĊŤĊĊĂŤĠĠŤĠĠĠĠĀ	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	ŤĊĂĊĊĠĠĠĠĠĂĂĠŤĠĊĊĠĠĊĊĂĊĂĊŦĠŦĠŦĊŤĠĠAŦŤŤĠŤŤAĠĊĊŤĊĊŤĊĠĊĂĊĊĂĠĠĊĠ	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TĠAACTĠĊAATĠATAĠĊĊŤĊAAĊAĊĊĠĠĊŦĠĠŤŦĠĠĊĀĠĠĠĊŤŦŤŤĊŤAŤĊĀĊĊĀĊĀĀĠŤ	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	tcaactcttcaggctgtcctgagaggctagccagctgccgaccccttaccgattttgacc	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	ggcactacccccaaaaccttgcggtattgtgcccgcgaagagtgtgtgt	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTCATCGGAGGGGCGGCCAACAACACCCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	GCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGT	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	GCCTGGTCGACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATAT	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGTCGAACACAGGCTGGAAGCTGCCAACTGGA	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281		2340
Query	2341	TGTCCACCACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCCTCCCGTGTTCCTTCACAACCCTACCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCACAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520

Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	cagacgcgcgcgcgctctgcttgcttgtggatgatgctactcatatcccaagcggaggcgg	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŢŢŢĠĠŖĠĸĸĊŢĊĠŢĸĸŢĸĊŢŢĸĸŢĊĸĠĊĸĠĊĸĊĠĠĠĸĊĠĊĸĊĠĠŢĊŢŢĠŢĸŢ	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	ccttcctcgtgttcttctgctttgcatggtatttgaagggtaagtgggtgcccggagcgg	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCGTTGCCTCAGCGGG	2760
Sbjct	2701	tötacacettetacgggatgtggeetetetetetetetetgetettgeegt	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTAA	2820
Sbjct	2761	cgtacgcgctggacacggaggtggccgcgtgtggcggtgttgttctcgtcgggttga	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	rigici de de la comparisor de la compari	2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTcccccctCAACGTCC	2940
Sbjct	2881	agtattttctgaccagagtggaagcgcaactgcacgtgtggattccccccctcaacgtcc	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	ĠAĠĠĠĠĠĠĠĠĠĠĊĠĊĠŦĊĀŦĊŦŦĀĊŦĊĂŦĠŦĠŦĠĊŤ~ĠŦĀĊĀĊĊĊĠĀĊŦĊŦĠĠŦĀŦŦŦ	2999
Query	3000	GACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	ĠĂĊĂŤĊĂĊĊĂĂĂŦŤĠĊŤĠĊŤĠĠĊĊĠŤĊŤŤĊĠĠĂĊĊĊĊŤŤŤĠĠĂŤŤĊŤŤĊĂĂĠĊĊĂĠŤŤŤĠ	3059
Query	3060	CTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	ĊŤŤŔŔŔĠŤŔĊĊŤŔĊŤŤŦĠŤĠĊĠĊĠŤĊĊŔŔĠĠĊĊŤŤĊŤĊĊĠĠŦŤĊŤĠĊĠĊĠŦŤŔĠĊĠĊĠĠ	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGC	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	CCTAACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATTGTGTCAACTGCTGC	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658

Sbjct	3599	AACGAGGACCATCGCGTCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCA	3658
Query	3659	AGACCTTGTGGGCCTGCCCCCCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	agaccttgtgggctggcccgctccgcaaggtagccgctcattgacaccttgcacttgcgg	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGAGG	3778
Sbjct	3719	ctcctcggacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccggcggg	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGCAGCCTGCTGTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	gggtccgctgttgtgccccgcgggcacgccgtgggcatatttagggccgcggtgtgcac	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	ccgtggagtggctaaggcggtggactttatccctgtggagaacctagagacaaccatgag	3958
Query	3959	ATCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	gtccccggtgttcacggataactcctctccaccagtagtgccccagagcttccaggtggc	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	tcacctccatgctccacaggcagcggcaaaagcaccaaggtcccggctgcatatgcagc	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	rcagggctataaggtgctagtactcaaccccttgttgctgcaacactgggctttggtgc	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	cactggcagccccatcacgtactccacctacggcaagttccttgccgacggcgggtgctc	4258
Query	4259	AGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	ggggggccttatgacataattttgtgacgagtgccactccacggatgccacatccat	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319	ĊŦŦĠĠĠĊĀŦĊĠĠĊĀĊŦĠŦĊĊŦŦĠĀĊĊĀĀĠĊĀĠĀĠĀĊŦĠĊĠĠĠĠĠĠĠĠ	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	c c c c c c c c c c c c c c c c c c c	4438
Query	4439	TCTGTCCACCACCGGAGAGTCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	tctgtccaccaccggagagatccctttttacggcaaggctatccccttcgaagtaatcaa	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	ĠĠĠĠĠĠĠĠĠĠĠĠĠĊĠĊĊĊĊĊĊĊĠĊĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798

Sbjct	4739	TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGCATGGCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	tcatatagatgcccactttctatcccagacaaagcagagtggggagaaccttcctt	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	ggtagcgtaccaagccaccgtgtgcgctagggctcaagcccctccccatcgtgggacca	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	gatgtggaagtgtttgattcgcctcaagcccaccctccatgggccaacacccctgctata	5218
Query	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTCAGAATGAAATCACCCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	gacatgcatgtcggccgacctggaggtcgtcacgagcacctgggtgctcgttggcggcgt	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	cctggctgctttggccgcgtattgcctgtcaacaggctgcgtggtcatagtgggcagggt	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	ĊĠŦĊŦŦĠŦĊĊĠĠĠAAĠĊĊĠĠĊAAŦĊĀŦĀĊĊŦĠĀĊĀĠĠĠAAĠŦĊĊŦĊŦĀĊĊĠĀĠ~ĀĠŦŦĊĠ	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	atgagatggaagagtgctctcagcacttaccgtacatcgagcaagggatgatgctcgccg	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	agcagttcaagcagaaggcctcggcctcctgcagaccgcgtcccgtcaggcagaggtta	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	tcgcccctgctgtccagaccaactggcaaaaactcgagaccttctgggcgaagcatatgt	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	ġĠaacttcatcaġtġġġatacaatacttġġċġġċttġtċaaċġċtġċċtġġtaaċċċċġ	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	ccattgcttcattgatggcttttacagctgctgtcaccagcccactaaccactagccaaa	5757
Query	5758	CCCTCCTCTAACATATTggggggTGGGTGCCCAGCTCGCCGCCCCGGTGCCG	5817
Sbjct	5758	ccctctcttcaacatattgggggggtgggtggctgcccagctcgccgccccggtgccg	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	ctactgcctttgtggcgcgctggcttagctggcgccgccatcggcagtgttggactggga	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCAT	5937

Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	tcctctcgcccggagccctcgtagtcggcgtggtctgtgcagcaatactgcgccggcacg	6057
Query	6058	TTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	tiggcccgggcgaggggcagtgcagtgatgaaccggctgatagccttcgcctcccgg	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTG	6177
Sbjct	6118	ggaaccatgtttccccacgcactacgtgccggagagcgatgcagctgcccgcgtcactg	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	ĊĠĠĀĠŦĠŦĀĊĊĀĊŦĊĊĀŦĠĊŦĊĊĠĠŦŦĊĊŦĠĠĊŦĀĀĠĠĠĀĊĀŦĊŦĠĠĠĀĊŦĠĠĀŦĀŦĠĊĠ	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCCTTTGTGTCCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTAC	6536
Query	6537	ACCACGGGCCCCTGTACTCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCTGTACCCCCCTTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATT	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGGTGCGCCTACATAGGTTTGCGCCCCCTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6776	ATCATTCAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGCGAAGGTTGGCCAG-GGGATCACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074

Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Query	7075	AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	agtcagaaaacaaagtggtgattctggactccttcgatccgcttgtggcggaggaggacg	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCC	7194
Sbjct	7135	AĠĊĠĠĠĀĠAŤĊŤĊĊĠŤĂĊĊĊĠĊĀĠĀĀĀŤĊĊŤĠĊĠĠĀĀĠŤĊŤĊĠĠĀĠĀŤŤĊĠĊĊĊĀĠĠĊĊĊ	7194
Query	7195	TGCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCG	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGC	7314
Sbjct	7255	ACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGC	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315	CTCCGCCTCGGAAGAAGCGGACGGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGG	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAGCTTTGGCAGCTCCTCAACTTCCGGCCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCTTCTGGCTGaaaaaaaaGGACTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATGCCCCCCTGGAGGGGGGGCCTGGGGGATCCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495 7555	ATTCCTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCTGGACTCTATC GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7554 7614
Query Sbjct	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCGCGGAAGAACAAAAACTGCCCATCAACG	7674
Sbjct	7615		7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTG	7734
Sbjct	7675		7734
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735		7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795		7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACAATGTAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT	8034
Query	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACC	8094
Sbjct	8035	tctgcgttcagcctgagaaggggggtcgtaagccagctcgtctcatcgtgttccccgatc	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	ŤĠĠĠĊĠŤĠĊĠĊĠŤĠŤĠĊĠĂAĂĂĠĂŤĠĠĊŦŦŤĠŤĂĊĠĂĊĠŤĠĠŤŤĂ~ĊĂĂĂĠĊŤĊĊĊĊŦŤĠ	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213

Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214		8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274		8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334		8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394		8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8574	GAAAGCGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Query	8634	AGGTACTCCGeccccccggggacceecaCaACCAGAATACGACTTGGAGCTTATAACA	8693
Sbjct	8634	AGGTACTCCGCCCCCTGGGGACCCCCCACAACCAGAATACGACTTGGAGCTCATAACA	8693
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTT	8753
Sbjct	8694	tcatgctcctccaacgtgtcagtcgcccacgacggcgctggaaagagggtctactacctc	8753
Query	8754	ACCCGTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8754	ACCCGTGACCCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCA	8813
Query	8814	GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814	ĠŤĊAAŤŤĊĊŤĠĠĊŤAĠĠĊĀAĊĂŤAAŤĊĂŤĠŤŤĠĊĊĊĊĀĊĀĊŤĠŤĠĠĠĊĠĀĠĠĀŤĠĀŤĀ	8873
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8874	ĊŢĠŖŢĠŖĊĊŖŢŢŢŢŢŖĠĊĠŢĊĊŢŢŖŢŖĠŖĠŖĠŖĊŖĠĠŖĊŢŖĠŖŢ	8933
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8934	TĠCĠAĠAŤĊŤAĊĠĠĠĠĊĊŤĠĊŤAĊŤĊĊAŤAĠAAĊĊAĊŤŤĠAŤĊŤAĊĊŤĊĊAAŤĊAŤŤĊAA	8993
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8994	ÁGÁCTCCÁTGGCCTCÁGCGCÁTTTTCÁCTCCÁCÁGTTÁCTCTCCÁGGTGÁÁÁTTÁÁTÁGG	9053
Query	9054	GTGGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCC	9113
Sbjct	9054	ĠŤĠĠĊĊĠĊĂŤĠĊĊŤĊĂĠĂĂĂĂĊŤŤĠĠĠĠŤAĊĊĠĊĊĊŤŤĠĊĠĂĠĊŤŤĠĠĂĠĂĊĂĊĊĠĠĠĊĊ	9113
Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9114	ĊĠĠĂĠĊĠŤĊĊĠĊĠĊŦĂĠĠĊŤŤĊŤĠĠĊĊĂĠĂĠĠĂĠĠĊĂĠĠĠĊŤĠĊĊĂŤĂŤĠŤĠĠĊĂĀĠŦĂĊ	9173
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9233
Sbjct	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9233
Query	9234	CTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG	9293
Sbjct	9234	CTGGACTTGTCCGGCTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG	9293
Query	9294	TCTCATGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGC	9353

```
9294
        Sbjct
    9354
        ATCTACCTCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT
Query
        9354
Sbjct
Score = 1.520e+04 bits (8231), Expect = 0.0 Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus
Query
    1
        GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
                                                  60
        GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
                                                  60
Sbjct
    1
        Query
    61
                                                  120
        TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC
    61
                                                  120
Sbjct
        cccccCCCGGGAGACCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
Query
    121
                                                  180
        CCCCCTCCGGGÁGÁGCCÁTÁGTGGTCTGCGGÁÁCCGGTGÁGTÁCACCGGAÁTTGCCÁG
Sbjct
    121
                                                  180
        GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC
Query
    181
                                                  240
        Sbjct
    181
                                                  240
    241
        GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
                                                  300
Query
        Sbjct
    241
                                                  300
    301
        GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
                                                  360
Query
        GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
Sbjct
    301
                                                  360
        CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
Query
    361
                                                  420
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    361
                                                  420
Sbjct
    421
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                                                  480
Query
        421
        GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
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Sbjct
    481
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                                                  540
Query
        Sbjct
    481
                                                  540
    541
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                                                  600
Query
        541
                                                  600
Sbjct
    601
        GCAATGAGGGTTGCGGGTGGCCGGGATGCCCCTGTCCCCCGTGGCTCTCGGCCTAGCT
                                                  660
Query
        601
        ĠĊĂĂŤĠĂĠĠĠĊŤĠĊĠĠĠŤĠĠĠĊĠĠĠĂŤĠĠĊŤĊĊŤĠŤĊŤĊĊĊĠŤĠĠĊŤĊŤĊĠĠĊĊŤĂĠĊŤ
                                                  660
Sbjct
Query
    661
        GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA
                                                  720
        661
                                                  720
Sbjct
        \tt CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG
    721
                                                  780
Query
        ĊĠŦĠĊĠĠĊŦŦĊĠĊĊĠĂĊĊŦĊĂŦĠĠĠĠŦĂĊĂŦĂĊĊĠĊŦĊĠŦĊĠĠĊĠĊĊĊĊŦĊŦŦĠĠĂĠĠĊĠ
    721
                                                  780
Sbjct
    781
        CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG
Query
        Sbjct
    781
        CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG
                                                  840
    841
        GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG
                                                  900
Query
        841
                                                  900
Sbjct
    901
        \tt TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGGCTTTACCATGTCACCAATGATT
                                                  960
Query
```

Sbjct	901	TGCCCGCTTCGGCCTACCAAGTGCGCAACTCCACGGGGCTTTACCACGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961		1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGATGCCAAACTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	ggagcgccaccctctgttcggccctctacgtgggggacctatgcgggtctgtct	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	tcĠĠcċaaċtĠttcaċċttċtċċċċaĠĠċĠċċaċtĠĠaċĠaċĠċaaĠgttĠċaattĠct	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	ĊŦĂŦĊŦĂŦĊĊĠĠĊĊĂŦĂŦĂĂĊĠĠĠŦĊĂĊĊĠĊĂŦĠĠĊĂŦĠ	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	TGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCACACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681	TCAACTCTTCAGGCTGTCCTGAGAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACC	1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTACTGCT	1800
Sbjct Ouerv	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCT	1800 1860
~ 1	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct Ouerv	1801 1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
~ 1		ATTGCTTCACTCCCAGCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct Query	1861 1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1920
Sbjct	1921	ACAGCIGGGGIGCAAAIGAIACGGAIGICIICGICCIIAACAACACCAGGCCACCGCIGG	1980
Query	1921	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATIGGTICGGTIGTACCIGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Quer y	2011		2100

Sbjct	2041	CTCCTTGTGTCATCGGAGGGGGGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ġĊaagĊatĊĊĠĠaĊĠĊĊaĊataĊtĊtĊĠĠtĠĊĠĠĊtĊĊĠĠtĊĊĊtĠĠatĊaĊaĊĊĊaĠĠt	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	ĠĊĊŦĠĠŦĊĠĂĊŦĂĊĊĊĠŦĂŦĂĠĠĊŦŦŦĠĠĊĂŦŦĂŦĊĊŦŦĠŦĂĊĊĂŦĊĂĂĊŦĂĊĂĊĊĂŦĂŦ	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTCGAACACAGGCTGGAAGCTGCCTGC	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCCTCCCGTGTTCCTTCACAACCCTACCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581 2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640 2640
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Query Sbjct	2641		2700
Query	2701	TCTACGCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCTGCTCTCAGCGGG	2760
Sbjct	2701		2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761		2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	TGGCGCTGACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTC	2880
Query	2881	AGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTccccccTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCC	2940
Query	2941	gggggggCCCGATCCCTACCCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	GAGGGGGGGCGCGACCCGTCATCTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTT	2999
Query	3000	GACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	gacatcaccaaattgctgctggccgtcttcggaccccttttggattcttcaagccagtttg	3059
Query	3060	CTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	cttaaagtaccctactttgtgcgcgtccaaggccttctccggttctgcgcgttagcgcgg	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	aagatgatc-ggaggccattacgtgcaaatggtcatcattaagttaggggcgcttactgg	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238

Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	tctggccgtggctgtagagccagtcgtcttctcccaaatggagaccaagctcatcacgtg	3298
Query	3299	GGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	gggggcagataccgccgcgtgacatcatcaacggcttgcctgtttccgcccgc	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	ggccgggagatactgctcggccagccgatggaatggtctccaaggggtggaggttgct	3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	ggcgcccatcacggcgtacgcccagcagacaaggggcctcctagggtgcataatcaccag	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479	cctaactggccggacaaaaaccaagtggagggtgaggtccagattgtgtcaactgctgc	3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	ccaaaccttcctggcaacgtgcatcaatggggtgtgctgactgtctaccacggggccgg	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	aacgaggaccatcgcgtcacccaagggtcctgtcatccagatgtataccaatgtagacca	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	agaccttgtgggctggcccgctccgcaaggtagccgctcattgacaccctgcacttgcgg	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGAGG	3778
Sbjct	3719	ctctcggacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccggcgg	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TĠATAĠĊĀĠĠĠĠĊĀĠĊĊŦĠĊŤĠŤĊĠĊĊĊĠĠĊĊĊĀŦŦŦĊĊŦĀĊŦŤĠĀĀĀĠĠĊŦĊĊŦĊĠĠĠ	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	ĠĠĠŤĊĊĠĊŤĠŤŤĠŤĠĊĊĊĠĊĠĠĠĠĊĂĊĠĊĊĠŤĠĠĠĊAŤĂŤŤŤĂĠĠĠĊĊĠĊĠĠŤĠŤĠĊĂĊ	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	ĊĊĠŤĠĠĀĠŤĠĠĊŤĀĀĠĠĊĠĠŤĠĠĀĊŤŤĀŤĊĊĊŤĠŤĠĠĀĠĀĀĊĊŤĀĠĀĠĀĊĀĀĊĊĀŤĠĀĠ	3958
Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	gťĊĊĊĠĠŤĠŤŤĊĂĊĠĠĂŤĂĂĊŤĊĊŤĊŤĊĊĂĊĊĂĠŤĂĠŤĠĊĊĊĊĂĠĂĠĊŤŤĊĊĂĠĠŤĠĠĊ	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	TĊĂĊĊŤĊĊĂŤĠĊŤĊĊĊĂĊĀĠĠĊĀĠĊĠĠĊĀĀĀĀĠĊĀĊĊĀĀĠĠŤĊĊĊĠĠĊŤĠĊĀŤĀŤĠĊĀĠĊ	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TĊAĠĠĠĊŤATAAĠĠŤĠĊŤAĠŤAĊŤĊĀAĊĊĊŤĊŤĠŤŤĠĊŤĠĊĀAĊAĊŤĠĠĠĊŤŤŤĠĠŤĠĊ	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	ttacatgiccaaggcicatgggatcgatcctaacatcaggaccggggtgagaacaattac	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	ĊACTĠĠĊAĠĊĊĊĊĀTĊAĊĠŦĀĊŦĊĊĀĊĊŦĀĊĠĠĊĀAĠŦŦĊĊŦŦĠĊĊĠĀĊĠĠĊĠĠĠŦĠĊŦĊ	4258
Query	4259	AGGAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	gĠĠĠĠĠĊĠĊŦŦŔŦĠŔĊŔŦŔŔŦŔŔŦŦĠŦĠŔĊĠŔĠŦĠĊĊŔĊŦĊĊŔĊĠĠŔŦĠĊĊŔĊŔŦĊĊŔŦ	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378

Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	c de cace de c	4438
Query	4439	TCTGTCCACCGCGGAGAGTCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	totgtocaccaccagagagatocctttttacggcaaggctatocccctcgaagtaatcaa	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACATCTCATCTTCTGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	cccgaccagcggcgatgttgtcgtcgtggcaaccgatgccctcatgaccggctataccgg	4678
Query	4679	CGACTTCGACTCTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct	4679	c da c t t c da c t c da c t da c t de ca c t c da c da	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	ggggcttcccgtgtgccaggaccatcttgaattttgggagggcgtctttacaggcctcac	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	tcatatagatgcccactttctatcccagacaaagcagagtggggagaaccttcctt	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	ggtagcgtaccaagccaccgtgtgcgctagggctcaagcccctcccccatcgtgggacca	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTTTGATTCGCCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTCAGAATGAAATCACCCTGACGCACCCAGTCACCAAATACATCAT	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGCGT	5338
Sbjct	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATCATACCTGACAGGGAAGTCCTCTACCGAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517

Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCCTGCTGTCCAGACCAACTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	ggaacticatcagtgggatacaatacttggcgggcttgtcaacgctgcctggtaaccccg	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	ccattgcttcattgatggcttttacagctgctgtcaccagcccactaaccactagccaaa	5757
Query	5758	CCCTCCTCTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCG	5817
Sbjct	5758	ccctcctcttcaacatattgggggggtggctgcccagctcgccgccccggtgccg	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	ĊŦĂĊŦĠĊĊŦŦŦĠŦĠĠĠĊĠĊŦĠĠĊŦŦĂĠĊŦĠĠĊĠĊĊĠĊĊĂŦĊĠĠĊĀĠŦĠŦŦĠĠĀĊŦĠĠĠĠĀ	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AĞĞTCCTCATAĞACATCCTTĞCAĞĞĞTATĞĞCĞĞĞĞĞĞĞĞ	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGCAGTGCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTG	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCCTTTGTGTCCTGCCAGCGCGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTAC	6536
Query	6537	ACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCTGTACCCCCCTTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655

Sbjct	6597	TCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTAT	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6656	ĠĂĊŤĂĊŤĠĂĊĂĂŤĊŤĊĂĂĂŤĠĊĊĊĠŤĠĊĊĂĠĠŤĊĊĊĂŤĊĠĊĊĊĠĂĂŤŤŤŤŤĊĂĊĂĠĂĂŤŤ	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	GGACGGGGTGCCCTACATAGGTTTGCGCCCCCTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6776	ATCATTCAGAGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGA	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATCACCCCCTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Query	7075	AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	AGTCAGAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACG	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCC	7194
Sbjct	7135	AGCGGGAGATCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCC	7194
Query	7195	TGCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195 7255	TGCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCG ACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGC	7254 7314
Query Sbjct	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCGCTTCCACCTCCAAAGTCCCCTCCTGTGC	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315		7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375		7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATGeeeccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCCTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	GGTCAACGGTCAGTAGTGAGGCCAACGCGGAGGATGTCGTGCTGCTCCAATGTCTTACT	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACG	7674
Sbjct	7615	CTTGGACAGGCGCACTCGTCACCCCGTGCGCGCGGAAGAACAGAAACTGCCCATCAATG	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTG	7734
Sbjct	7675	cactaagcaactcgttgctacgtcaccacaatttggtgtattccaccacctcacgcagtg	7734
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794

Sbjct	7735	CTTGCCAAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795		7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	accttctggaagacaatgtaacaccaatagacactaccatcatggctaagaacgaggttt	8034
Query	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACC	8094
Sbjct	8035	tötgögttöagöctgagaagggggtögtaagöcagötögtötöatögtgttöcöcögatö	8094
Query	8095	TGGGCGTGCGCGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	tiggicigitigicigitigicigiaaaagatigicititigitacigacigitigitia—caaaagcticicititigi	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	ĠĊĊĠŦĠĀŦĠĠĠĀĀĠĊŦĊĊŦĀĊĠĠĀŦŦĊĊĀĀŦĀĊŦĊĀĊĠĠĠĀĊĀĠĊĠĠĠŦŦĠĀĀŦŦĊĊŦĊ	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	ĠŤĠĊŔŔĠĊĠŤĠĠŔŔĠŤĊĊŔŔĠŔŔĸŔĊĊĊĸŔŤĠĠĠĠŤŤĊŤĊĠŤŔŤĠŔŤŔĊĊĊĠĊŤĠĊŤŤ	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	ĠĂĊŢĊĊĂĊĂĠŢĊĂĊŢĠĂĠĂĠĊĠĂĊĂŢĊĊĠŢĂĊĠĠĂĠĠĂĠĠĊĂĂŢĊŢĂĊĊĂĂŢĠŢĠĂĊ	8333
Query	8334	CTGGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	ĊŢĊĠŖĊĊĊĊŖŖĠĊĊĠĊĠŢĠĠĊĊĸŢĊĸŔĠŢĊĊĊŢĊĸĊĊĠĸĠĸĠĠĊŢŢŢĸŢĠŢŢĠĠĠĠĊ	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Sbjct	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8574	GAAAGCGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Query	8634	AGGTACTCCGccccccggggaccccccACAACCAGAATACGACTTGGAGCTTATAACA	8693
Sbjct	8634	AGGTACTCCGCCCCCTGGGGACCCCCCACAACCAGAATACGACTTGGAGCTCATAACA	8693
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTT	8753
Sbjct	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTC	8753
Query	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8813
Sbjct	8754	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACACTCCA	8813
Query	8814	GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8814	GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8873
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933

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8874
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Sbjct
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        8934
                                                 8993
Sbjct
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Sbjct
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                                                 9053
    9054
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                                                 9113
Query
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                                                 9113
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Query
    9114
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        9114
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Sbjct
    9174
        9233
Query
        9174
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Sbjct
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                                                 9293
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        9234
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Sbjct
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Query
    9294
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Sbjct
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Query
        Sbjct
>gb|I71894.1|I71894 Sequence 9 from patent US 5683864
Length=9401
Score = 1.520e+04 bits (8231),
                     Expect = 0.0
Identities = 9018/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus
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                                                 60
Query
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Sbjct
    61
        TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
                                                 120
Query
        Sbjct
    61
                                                 120
        @@@@@TCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
                                                 180
Query
    121
        121
                                                 180
Sbjct
    181
        GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC
                                                 240
Query
        181
        ĠĂĊĠĂĊĊĠĠĠŤĊĊŤŤŤĊŤŤĠĠĂŤĊĂĂĊĊĠĊŤĊĂĂŤĠĊĊŤĠĠĂĠĂŤŤŤĠĠĊĠŤĠĊĊĊĊ
                                                 240
Sbjct
Query
    241
        GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
                                                 300
        241
                                                 300
Sbjct
        GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
    301
                                                 360
Query
        ĠŢĠĊŢŢĠĊĠĂĠŢĠĊĊĊĠĠĠĂĠĠŢĊŢĊĠŢĂĠĂĊĊŢĠĊĂĊĊĂŢĠĂĠĊĂĊĠĂĂŢĊŢĀĂĂĊ
    301
                                                 360
Sbjct
        CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
Query
    361
        Sbjct
    361
        CTCAAAAAAAAACAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
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    421
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Query
                                                 480
        421
                                                 480
Sbjct
    481
        GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA
                                                 540
Query
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Sbjct	481	GCGCGACGAGAAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGCTCGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGCTGCGGGTGGCCGGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCCCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	ggggcccacagaccccggcgtaggtcgcgcaatttgggtaaggtcatcgataccctta	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	ĊĠŦĠĊĠĠĊŦŦĊĠĊĊĠĂĊĊŦĊĂŦĠĠĠĠŦĂĊĂŦĂĊĊĠĊŦĊĠŦĊĠĠĊĠĊĊĊĊŦĊŦŦĠĠĂĠĠĊĠ	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTTTGCTTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCGGCCTACCAAGTGCGCAACTCCACGGGGCTTTACCACGTCACCAATGATT	960
Query	961 961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020 1020
Sbjct Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1020
Sbjct	1021		1080
Query	1081	CCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGTCG	1140
Sbjct	1081		1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141		1200
Query	1201	TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCAACTGTTCACCTTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	cccctacgacgccgttggtaatggctcagctgctccggatcccacaagccatcttggaca	1380
Query	1381	TGATCGCTGGTGCTCACTGGGGGGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1381	ŤĠĂŤĊĠĊŤĠĠŤĠĊŤĊĂĊŤĠĠĠĠĀĠŤĊĊŤĠĠĊĠĠĠĊĂŤĂĠĊĠŤĂŤŤŤĊŤĊĊĂŤĠĠŤĠĠĠĠĀ	1440
Query	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGTTTTGCCGGCGTCGACGCGGAAACCCACG	1500
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501	TCACCGGGGGAAGTGCCGGCCACACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCG	1560
Query	1561	CCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680

Sbjct	1621	TGAACTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
Sbjct	1681		1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741	AGGGCTGGGGCCCTATCAGTTATGCCAACGGAAGCGCCCCGACCAGCGCCCCTACTGCT	1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801	GGCACTACCCCCAAAACCTTGCGGTATTGTGCCCGCGAAGAGTGTGTGT	1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861	attgcttcactccagccccgtggtggtggaacgaccgacaggtcgggcgcccacct	1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	acagctggggtgaaaatgatacggacgtcttcgtccttaacaataccaggccaccgctgg	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	ĠĊĀĀŤŤĠĠŤŤĊĠĠŤŤĠŤĀĊĊŤĠĠĀŤĠĀĀĊŤĊĀĀĊŤĠĠĀŤŤĊĀĊĊĀĀĀĠŤĠŤĠĊĠĠĀĠĊĠĊ	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	ĊŢĊĊŢŢĠŢĊĸŢĊĠĠĸĠĠĠĠĠĠĠĠĊĸĸĊĸĸĊĸĸĊŢĠĊĸĊŢĠĸŢŢĠĊŢŢĊĊ	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊŔĸĠĊŔŦĊĊĠĠŔĊĠĊĊŔĊŔŦŔĊŦĊŦĊĠĠŦĠĊĠĠĊŦĊĊĠĠŦĊĊĊŦĠĠŔŦĊŔĊŔĊĊŔĠĠŦ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	ĠĊĊŢĠĠŢĊĠĂĊŢĂĊĊĊĠŢĂŢĂĠĠĊŢŢŢĠĠĊĂŢŢĂŢĊĊŢŢĠŢĂĊĊĂŢĊĂĊĊĂŢĂŢ	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGGTCGAACACAGGCTGGAAGCTGCCTGC	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCCTCCCGTGTTCCTTCACAACCCTACCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	ĊŤŤŤĠĠŔĠŔŔĊĊŤĊĠŤŔŔŤŔĊŤŤŔŔŤĠĊŔĠĊŔŤĊĊĊŤĠĠĊĊĠĠĠŔĊĠĊŔĊĠĠŤĊŤŤĠŤŔŤ	2640
Query	2641	CCTTCCTCGTGTTCTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGG	2760
Sbjct	2701	ŤĊŤŔĊŔĊĊŤŤĊŤŔĊĠĠĠŔŤĠŤĠĠĊĊŤĊŤĊĊŤĠĊŤĠĊŤĠĊŤĠŦŤĠĠĊĠŤŤĠĊĊĊĊŔĠĊĠĠĠ	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAA	2820

Sbjct	2761	CGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGA	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880
Sbjct	2821	rggcgcrgactcrgtcaccatattacaagcgctatatcagctggrgctrgrggtggcttc	2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTccccccTCAACGTCC	2940
Sbjct	2881	AGTATTTTCTGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCCC	2940
Query	2941	gggggggCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941	ĠAĠĠĠĠĠĠĠĠĊĠĊĠĂĊĠĊĊĠŤĊĂŤĊŤŤĂĊŤĊĂŤĠŤĠŤĠĊŤĠŢĂĊĂĊĊĊĠĂĊŦĊŤĠĠŤĂŤŤŤ	2999
Query	3000	GACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000	GACATCACCAAATTGCTGCTGGCCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Query	3060	CTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060	CTTAAAGTACCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGG	3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120	AAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCTTCTGGGGACTGGGCGCACAACGGCTTGCGAGA	3238 3298
Query Sbjct	3239 3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299		3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359		3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAG	3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479		3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGG	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	aacgaggaccatcgcgtcacccaagggtcctgtcatccagatgtataccaatgtagacca	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCTGGCCCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	ĊŤĊĊŤĊĠĠĂĊĊŤŤŤĂĊĊŤĠĠŤĊĂĊĠĂĠĠĊĂĊĠĊĊĠĂŤĠŤĊĂŤŤĊĊĊĠŤĠĊĠĊĊĠĠĊĠĠĠĠ	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	ŤĠĂŤĂĠĊĂĠĠĠĠĊĂĠĊĊŤĠĊŤĠŤĊĠĊĊĊĠĠĊĊĊĂŤŤŤĊĊŤĂĊŤŤĠĂŔĂĠĠĊŤĊĊŤĊĠĠĠ	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958

Sbjct	3899	CCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	GTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	TCACCTCCATGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	rcagggctataaggtgctagtactcaaccccttctgttgctgcaacactgggctttggtgc	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CÁCTGGCÁGCCCCÁTCÁCGTÁCTCCÁCCTÁCGGCÁÁGTTCCTTGCCGÁCGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	GGGGGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	CGCCACCGCCACCCTCCGGGCTCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGC	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCGGGAGAGTCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	GGGGGGGAGACTCTCTTCTGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAA	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4618
Sbjct	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCAT	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678 4738
Query	4679 4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	IGACCCTACCTTCACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCGCACTCA TGACCCTACCTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGCAGGACTGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGA	4858
Sbjct	4799		4858
Query	4859	GCGCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859		4918
Query	4919	TIGGTATGAGCTCACGCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TIGGTATGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGCGTCTTTACAGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Zuct À			5070

Sbjct	5039	TCATATAGATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	ggtagcgtaccaagccaccgtgtgcgctagggctcaagcccctccccatcgtgggacca	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	ĠĂŢĠŢĠĠĂĀĠŢĠŢŢŢĠĂŢŢĊĠĊĊŢĊĀĀĠĊĊĊŢĊĊĀŢĠĠĠĊĊĀĀĊĀĊĊĊŢĠĊŢĀŢĀ	5218
Query	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	ĊĂĠĂĊŤĠĠĠĊĠĊŤĠŤŤĊĂĠĂĂŤĠĂĂAŤĊĂĊĊĆŤĠĂĊĠĆĂĊĊĊĂĠŤĊĂĊĊĂĀĂŤĂĊĂŤĊĀŤ	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGCGT	5338
Sbjct	5279	ĠĂĊĂŦĠĊĂŦĠŦĊĠĠĊĊĠĂĊĊŦĠĠĂĠĠŦĊĠŦĊĂĊĠĂĠĊĂĊĊŦĠĠĠŦĠĊŦĊĠŦŦĠĠĊĠĠĊĠŦ	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	ĊĊŦĠĠĊŦĠĊŦŦŦĠĠĊĊĠĊĠŦĂŦŦĠĊĊŦĠŦĊĂĂĊĂĠĠĊŦĠĊĠŦĠĠŦĊĂŦĂĠŦĠĠĠĊĂĠĠĠŦ	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	ĊĠŦĊŦŦĠŦĊĊĠĠĠĂĂĠĊĊĠĠĊĂĂŦĊĂŦĂĊĊŦĠĂĊĂĠĠĠĂĀĠŦĊĊŦĊŦĂĊĊĠĂĠ~ĀĠŦŦĊĠ	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCCTGCTGTCCAGACCAACTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	GGAACTTCATCAGTGGGATACAATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCG	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAA	5757
Query	5758	CCCTCCTCTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCG	5817
Sbjct	5758	CCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	CTACTGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGA	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGGGGGG	5937 5997
Query	5938 5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct			6057
Query	5998 5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct Query	6058	TTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TIGGCCCGGGCGAGGGGCAGIGCAAIGGAIGAACCGGCIAAIAGCCIICGCCICCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
⊼и∈т λ	0110		0437

Sbjct	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Sbjct	6238	cggagtgtaccactccatgctccggttcctggctaagggacatctgggactggatatgcg	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Sbjct	6298	aggigitgagcgactitaagacciggctaaaagctaagcicatgccacagcigccigga	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	tcccctttgtgtctctgccagcgcggtataagggggtctggcgagtg-gacggcatcatg	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	cacactcgctgccactgtgagctgagatcactggacatgtcaaaaacgggacgatgagg	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	atcgtcggtcctaggacctgcaggaacatgtggagtgggaccttccccattaatgcctac	6536
Query	6537	ACCACGGGCCCTGTACTCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	accacgggcccctgtacccccttcctgcgccgaactacacgttcgcgctatggagggtg	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	tötgcagaggaatatgtggagataaggcaggtgggggacttccactacgtga-cgggtat	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6656	ĠĂĊŦĂĊŦĠĂĊĂĂŦĊŦĊĂĂĂŦĠĊĊĊĠŦĠĊĊAĠĠŦĊĊĊĂŦĊĠĊĊĊĠĂĂŦŦŦŦŦĊĂĊĀĠĀĀŦŦ	6715
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6716	ĠĠĀĊĠĠĠĠĠĠĊĠĊĊŦĀĊĀŦĀĠĠŦŦŦĠĊĠĊĊĊĊĊĊĠĊĀĀĠĊĊĊŦĠĊĠĠĠĀĠĠĀĠĠŦ	6775
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6776	atcattcagagtaggactccacgaatacccggtagggtcgcaattaccttgcgagcccga	6835
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6836	accigacitgicitgacitcaticaticaticaticaticaticaticaticati	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	ĠĠĊĊĠĠĠĊĠàaĠĠŤŤĠĠĊĠāĠ~ĠĠĠaŤĊàĊĊĊĊĊŤĊŤĠŤĠĠĊĊāĠĊŤĊĊŤĊĠĠĊŤāĠĊĊ	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AĞCTATCCĞCTCCÂTCTCTCÂAĞĞCÂACTTĞCÂCCĞCTÂACCÂTĞACTCCCCTĞATĞCTĞ	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015	AĞCTCATAĞAĞĞCCAACCTCCTATĞĞAĞĞCAĞĞAĞATĞĞĞCĞĞCAACATCACCAĞĞĞTTĞ	7074
Query	7075	AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	agtcagaaaacaaagtggtgattctggactccttcgatccgcttgtggcggaggaggacg	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCC	7194
Sbjct	7135	agcgggagatetecgtacecgcagaaatectgeggaagteteggagattegeecaggeec	7194
Query	7195	TGCCCGTCTGGGCGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	†ĠĊĊĊĠŤŦŤĠĠĠĊĠĠĊĊĠĠAĊŤAŤAAĊĊĊĊĊĠĊŤAĠŤĠĠAĠAĊĠŤĠĠAAAAAĠĊĊĊĠ	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGC	7314
Sbjct	7255	actacgaaccaccigigetecatggcigtecgcitecacciecaaagtececiecigige	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGG	7374

Sbjct	7315	CTCCGCCTCGGAAGAAGCGGACGGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGG	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Sbjct	7375	CCGAGCTCGCCACCAGAAGCTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434
Query	7435	CGACAACATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCT	7494
Sbjct	7435	CGACAACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCT	7494
Query	7495	ATTCTTCCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCAT	7554
Sbjct	7495	ATTCCTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTTAGCGACGGGTCAT	7554
Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
Sbjct	7555	ggtcaacggtcagtagtgaggccaacgcggaggatgtcgtgtgctgctcaatgtcttact	7614
Query	7615	CCTGGACAGGCGCACTCGTCACCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACG	7674
Sbjct	7615	ĊŢŢĠĠĸĊĸĠĠĊĠĊĸĊŢĊĠŢĊĸĊĊĊĠŢĠĊĠĊĠĠĠĸĸĠĸĸĊĸĠĸĸĸĊŢĠĊĊĸŢĊĸĸŢĠ	7674
Query	7675	CACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTG	7734
Sbjct	7675	ĊAĊŦAAĠĊAAĊŦĊĠŦŦĠĊŦAĊĠŦĊAĊĊAĊAAŤŦŦĠĠŦĠŦAŦŦĊĊAĊĊAĊĊŦĊAĊĠĊĀĠŦĠ	7734
Query	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
Sbjct	7735	ĊŢŢĠĊĊĸĸĸĠĠĊĸĠĸĸĠĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	7794
Query	7795	AGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Sbjct	7795	AGGACGTACTCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCG	7854
Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TÁGAGGÁAGCTTGCAGCCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914
Query	7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAG	7974
Sbjct	7915	CÁAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAG	7974
Query	7975	ACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTT	8034
Sbjct	7975	ACCTTCTGGAAGACAATGTAACACCAATAGACACTACCATCATGGCTAAGAACGAGGTTT	8034
Query	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACC	8094
Sbjct	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATC	8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	GTGCAAGCGTGGAAGTCCAAGAAAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTT	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTA	8453
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513

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        8634
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Query
    8634
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Sbjct
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Sbjct
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Sbjct
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Sbjct
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Query
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Sbjct
                                                 9053
Query
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Sbjct
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Sbjct
    9174
        9233
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Sbjct
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Query
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Sbjct
Query
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        ATCTACCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCT
Sbjct
    9354
>dbj|DM170404.1|
          HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379
Score = 1.516e+04 bits (8209),
                     Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus
        CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG
Query
    23
        Sbjct
    1
    83
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Query
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Sbjct	61	CCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGACCCCCCCTCCCGGGAGAGCCATA	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	202
Sbjct	121	ĠŦĠĠŦĊŦĠĊĠĠāaĊĊĠĠŦĠāĠŦaĊaĊĊĠĠāaŤŦĠĊĊāĠĠāĊĠĠĠĠŦĊĊŦŦŦĊŦŦĠĠā	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	ŤĊĂĂĊĊĊĠĊŤĊĂĂŤĠĊĊŤĠĠĂĠĂŤŤŤĠĠĠĊĠŤĠĊĊĊĊĠĊĂĂĠĂĊŤĠĊŤĂĠĊĊĠĂĠŤĀĠŤ	240
Query	263	GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	322
Sbjct	241	GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG	562
Sbjct	481	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCTCGTCGGCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541 623	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600 682
Query	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Sbjct	683	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	742
Query Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721		780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781		840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841		900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901		960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCGTCCCTTGCGTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	1021		1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCACCTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGC	1140
Query	1163	CCTCTACGTGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	cctctacgtggggacctatgcgggtctgtctttcttgtcggccaactgttcaccttctc	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTA	1282

Sbjct	1201	TCCCAGGCGCCACTGGACGCAAGGTTGCAATTGCTCTATCTA	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	gggtcaccgcatggcatgggatatgatgatgaactggtcccctacgacggcgttggtaat	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	ggctcagctgctccggatcccacaagccatcttggacatgatcgctggtgctcactgggg	1380
Query	1403	AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	ĠĊŢĠĊŢĠĊŢĀŢŢŢĠĊĊĠĠĊĠŢĊĠĀĊĠĊĠĠĠĀĀĀĊĊĊĀĊĠŢĊĀĊĊĠĠĠĠĀĀĠŢĠĊĊĠĠĊĊĀ	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT	1582
Sbjct	1501	ĊĂĊŦĠŦĠŦĊŦĠĠAŦŦŦĠŦŦAĠĊĊŦĊĊŦĊĠĊĀĊĠĠĊĠĊĊĀĀĠĊĀĠĀĀĊĠŦĊĊĀĠĊŦĠĀŦ	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CÁACACCÁACGGCÁGTTGGCÁCCTCÁATAGCÁCGGCCCTGAACTGCÁATGÁTAGCCTCÁA	1620
Query	1643	CACCGGCTGGTTAGCAGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	ĊĂĊĊĠĠĊŤĠĠŤŤĠĠĊĂĠĠĠĊŤŦŤĊŤĂŤĊĂĊĆĂĊĂĂĠŤŤĊĂĂĊŤĊŤŤĊĂĠĠĊŤĠŤĊĊŤĠĂ	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCGAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCCCCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACACCCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACACCCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422

Sbjct	2341	CCTCCCGTGTTCCTTCACAACCCTACCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	gaacattgtggacgtgcagtacttgtacggggtgggggtcaagcatcgcgtcctgggccat	2460
Query	2483	TAAGTGGGAGTACGTCGTTCCTGTTCCTTCTGCTTGCAGACGCGCGCG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTGCTTGCAGACGCGCGCG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	tgcatggtatttgaagggtaagtgggtgcccggagcggtctacaccttctacgggatgtg	2700
Query	2723	GCCTCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	gcctctcctcctgctcctgttggcgttgccccagcgggcgtacgcgctggacacggaggt	2760
Query	2783	GGCCGCGTCGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	ggccgcgtcgtgtggcggtgttgttctcgtcgggttgatggcgctgactctgtcaccata	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	ttacaagcgctatatcagctggtgcttgtgggggcttcagtattttctgaccagagtgga	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTccccccCTCAACGTCCggggggggGCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCCGAGGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	2941	ĊŢŢŖĊŢĊŖŢĠŢĠŢĠĊŢĠŢŖĊŢĊŢĠĠŢŖŢŢŢĠŖĊŖŢĊŖĊŢĠĊŢĠĠ	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	ccgtcttcggacccctttggattcttcaagccagtttgcttaaagtaccctactttgtgc	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	ĠĊĠŦĊĊĀĀĠĠĊĊŦŦĊŦĊĊĠĠŦŦĊŦĠĊĠĊĠŦŦĀĠĊĠĊĠĠĀĀĠĀŦĠĀŦĊ~ĠĠĀĠĠĊĊĀŦŦĀĊ	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	gtgcaaatggtcatcattaagttaggggcgcttactggcacctatgtttataaccatctc	3178
Query	3201	ACCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	actcctcttcgggactggccacaacggcttgcgagatctggccgtggctgtagagcca	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	ĠŤĊĠŤĊŤŤĊŤĊĊĊAAAŤĠĠĀĠĀĊĊĀĀĠĊŤĊĀŤĊĀĊĠŤĠĠĠĠĠĠĠĠĀĠĀŤĀĊĊĠĊĊĠĊĠŤĠĊ	3298
Query	3321	GGTGACATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	ggtgacatcatcaacggcttgcctgtttccgcccgcaggggccgggagatactgctcggg	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	cagcagacaaggggcctcctagggtgcataatcaccagcctaactggccggacaaaaac	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560

Sbjct	3479	CAAGTGGAGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCCTGTCATCCAGATGTACCAATGTGGACCAAGACCTTGTGGGCCTGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	ccgcaaggtagccgctcattgacaccctgcacttgcgcctcctcggacctttacctggtc	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	ŤĊĠĊĊĊĠĠĊĊĊĂŤŤŤĊĊŤĂĊŤŤĠĂĂĂĠĠĊŤĊĊŤĊĠĠĠĠĠĠŤĊĊĠĊŤĠŤŤĠŤĠĊĊĊĊĠĊĠ	3838
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	ĠĠĠĊĂĊĠĊĊĠŤĠĠĠĊAŤĂŤŤŦĂĠĠĠĊĊĠĊĠĠŤĠŤĠĊĂĊĊĊĠŤĠĠĀĠŤĠĠĊŤĀĀĠĠĊĠĠŤĠ	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	ĠĂĊŤŤŤĂŤĊĊĊŤĠŤĠĠĂĠĂĂĊĊŤĂĠAĠĂĊĂĂĊĊĂŤĠĂĠĠŤĊĊĊĊĠĠŤĠŤŤĊĂĊĠĠĂŦĂĂĊ	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGTGCTCGGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378 4460
Query	4401 4379	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Query Sbict	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Query	4439	TGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4498
Sbict	4321	IGCCACTCAAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbict	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
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Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	tigica a talog tigito a cocca ga ca gito ga titica go citiga coccita control control a ga ca ga	4738
Query	4761	ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	acaatcacectcccaegatectetcccecactcaacetceegecaegacteegeae	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGGG	4880
Sbjct	4799	gggaagccaggcatctacagatttgtggcaccggggagcgcccctccggcatgttcgac	4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	tögtöcgtötötgtgagtgötatgacgcaggötgtgöttgötatgagötöacgcöcgcö	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	ĠĀĠĀĊŦĀĊĀĠŦŦĀĠĠĊŦĀĊĠĀĠĊĠŦĀĊĀŤĠĀĀĊĀĊĊĊĠĠĠĠĊŦŤĊĊĊĠŦĠŦĠĊĊĀĠĠĀĊ	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	tcccagacaaagcagagtgggagaaccttccttacctggtagcgtaccaagccaccgtg	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	tigcigc taggiggic tich ag ciccic ciccic ciccic at ciggiggiac caga tigtiggia ag tigtigat ticgic	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	ctcaagcccaccctccatgggccaacacccctgctatacagactgggcgctgttcagaat	5218
Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
Sbjct	5219	gaaatcaccctgacgcacccagtcaccaaatacatcatgacatgcatg	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGCGTAT	5360
Sbjct	5279	ĠAĠĠŦĊĠŦĊAĊĠAĠĊAĊĊŦĠĠĠŦĠĊŦĊĠŦŦĠĠĊĠĠĊĠŦĊĊŦĠĠĊŦĠĊŦŦŦĠĠĊĊĠĊĠŦAŦ	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	r g c c r g c c c c c c c c c c c c c c	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	atcatacctgacagggaagtcctctaccgag-agttcgatgagatggaagagtgctctca	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	ĠĊAĊŦŦAĊĊĠŦAĊĀŦĊĠAĠĊĀAĠĠĠĀŦĠĀŦĠĊŦĊĠĊĊĠĀĠĊĀĠŦŦĊĀĀĠĊĀĠĀĀĠĠĊĊĊŦ	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	ĊĠĠĊĊŢĊĊŢĠĊĀĠĀĊĊĠĊĠŢĊĊĠŢĊĀĠĠĊĀĠĀĠĠŢŢĀŢĊĠĊĊĊŢĠĊŢĠŢĊĊĀĠĀĊĊĀĀ	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAACTTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839

Sbjct	5758	GGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	cttagctggcgccatcggcagtgttggactggggaaggtcctcatagacatccttgc	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	agggtatggcgcgggcgtggcggagctcttgtggcattcaagatcatgagcggtgaggt	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178 6260	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6237 6319
Query	6238	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6297
Sbjct Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298		6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358		6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417		6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477		6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	taaggcaggtgggggacttccactacgtga-cgggtatgactactgacaatctcaaatgc	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	ĊĊĠŦĠĊĊĀĠĠŦĊĊĊĀŦĊĠĊĊĠĀĀŦŦŦŦĊĀĊĀĠĀĀŦŦĠĠĀĊĠĠĠŦĠĊĠĊĊŦĀĊĀŦĀĠĠ	6715
Query	6738	TTTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbjct	6716	ŤŤŤĠĊĠĊĊĊĊĊĊŤĠĊŔŔĠĊĊĊŤŤĠĊŤĠĊĠĠĠŔĠĠŔĠŤŔŤĊŔŤŤĊŔĠŔĠŤŔĠĠŔĊŤĊĊŔĊ	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976

Sbjct	6895	GGGATCACCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	ġĠĊāāĊŤŤĠĊāĊĊĠĊŤāāĊĊĂŤĠāĊŤĊĊĊĊŤĠāŤĠĊŤĠāĠĠĊŤĊāŤāĠāĠĠĊĊāāĊĊŤĊĊŤ	7014
Query	7037	GTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255 7337	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7314 7396
Query Sbjct	7315	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7374
Query	7313	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375		7434
Query	7457	CCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTTCCATGccccccTGGA	7516
Sbjct	7435		7494
Query	7517	GGGGGAGCCTGGGGATCCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495		7554
Query	7577	CGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	cccgtgcgccgcggaagaacagaaactgcccatcaatgcactaagcaactcgttgctacg	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAGT	7756
Sbjct	7675	TĊÁCCÁCÁÁÁŤTŤĠĠŤĠŤÁŤŤĊĆÁĆCÁCCŤĊÁĊĠĊÁĠŤĠĊŤŤĠĊĊÁÁÁĠĠĊÁĠÁÁĠÁÁĠŤ	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
Query	7877	GCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCGTTGCCATGC	7914
Query	7937 7915	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996 7974
Sbjct Query	7915	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Zuci À	0001		0110

Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	ĠATTCCAATACTCACCAĠĠACAĠCĠĠĠTTĠAATTCCTCĠTĠCAAĠĊĠTĠĠAAĠTCCAAĠA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	aaaccccaatggggttctcgtatgatacccgctgctttgactccacagtcactgagagcg	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274	a catccgtacggaggaggcaatctaccaatgttgtgacctcgaccccaagcccgcgtgg	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCGGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGcccccccgggq	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG	8633
Query	8656	accccccACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
Sbjct	8634	ACCCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGTCAG	8693
Query	8716	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCCTACAACCCCCC	8775
Sbjct	8694	TCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTCACCCGTGACCCTACAACCCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCACACTCCAGTCAATTCCTGGCTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT	8933
Query	8956	ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC	9053
Query	9076	TTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9135
Sbjct	9054	TTGGGGTACCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9113
Query	9136	TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9195
Sbjct	9114	TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9173
Query	9196	CAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTT	9255

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    9174
     9256
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                                                    9315
Query
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                                                    9293
Sbjct
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     9316
Query
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    9376
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                            9401
Query
        9354
                            9379
Sbjct
>dbj|DL212380.1|
            HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379
Score = 1.516e+04 bits (8209),
                      Expect = 0.0
Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus
    23
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Query
         Sbjct
     1
                                                    60
Query
    83
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        61
                                                    120
Sbjct
    143
         GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA
                                                    202
Query
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    121
                                                    180
     203
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                                                    262
Query
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Sbjct
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Query
     263
                                                    322
         GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG
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    241
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    323
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                                                    382
Query
         301
                                                    360
Sbjct
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                                                    442
Query
         Sbjct
     361
                                                    420
     443
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Query
         TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA
         421
                                                    480
Sbjct
     503
         GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG
                                                    562
Query
         481
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Sbjct
Query
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                                                    622
         541
                                                    600
Sbjct
    623
         GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG
                                                    682
Query
         GGGÁTGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG
     601
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Sbjct
         TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT
Query
     683
         Sbjct
     661
                                                    720
         GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG
                                                    802
Query
     743
         721
                                                    780
Sbjct
    803
         \tt CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT
                                                    862
Query
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Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	ctctatcttccttctggccctgctctcttgcttgactgtgcccgcttcggcctaccaagt	900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	gcgcaactccacggggctttaccacgtcaccaatgattgccctaactcgagtattgtgta	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961	cgaggcggccgargccarccrgcacactccggggrgcgrccctrgcgrrcgrgagggcaa	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCCGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	1021	ĊĠĊĊŦĊĠĀĠĠŦĠŦŦĠĠĠŦĠĠĊĠĀŦĠĀĊĊĊĊŦĀĊĠĠŦĠĠĊĊĀĊĊĀĠĠĠĀŦĠĠĊĀĀĀĊŦĊĊĊ	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	cgcgacgcagcttcgacgtcacatcgatctgcttgtcgggagcgccaccctctgttcggc	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	cctctacgtggggacctatgcgggtctgtctttcttgtcggccaactgttcaccttctc	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCCCGGCCATATAAC	1282
Sbjct	1201	tcccaggcgccactggacgacgcaaggttgcaattgctctatcta	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	ĠĠĠŤĊŔĊĊĠĊŔŤĠĠĊŔŤĠĠĠŔŦŔŤĠŔŤĠŔŤĠŔĊĠĠŤĊĊĊĊŤŔĊĠŔĊĠĠĊĠŤŤĠĠŤŔŔŤ	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	gĠĊŤĊĂĠĊŤĠĊŤĊĊĠĠĂŤĊĊĊĂĊĂĂĠĊĊĂŤĊŤŤĠĠĂĊĂŤĠĂŤĊĠĊŤĠĠŤĠĊŤĊĂĊŤĠĠĠĠ	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT	1582
Sbjct	1501	CACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCGAAGAGTGTGTGTGCGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCCCCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002

Sbjct	1921	GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	ĠATĠAAĊŢĊAAĊŢĠĠAŢŢĊAĊĊAAAĠŢĠŢĠĊĠĠĠĠĊĠĊĊŢĊĊŢŢĠŢĠŢĊAŢĊĠĠAĠĠĠĠĊ	2040
Query	2063	GGGCAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	gggcaacaacaccctgcactgcccactgattgcttccgcaagcatccggacgccacata	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	ctctcggtgcggctccggtccctggatcacacccaggtgcctggtcgactacccgtatag	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	gctttggcattatccttgtaccatcaactacaccatatttaaaatcaggatgtacgtgg	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	aggggtcgaacacaggctggaagctgcctgcaactggacgcggggcgaacgttgcgatct	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACTGGCAGGT	2362
Sbjct	2281	ggaagacagggacaggtccgagctcagcccgttactgctgaccactacacagtggcaggt	2340
Query	2363	CCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	cctcccgtgttccttcacaaccctaccagccttgtccaccggcctcatccacctacca	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	ĠAAĊAŤŤĠŤĠĠAĊĠŤĠĊAĠŤAĊŤŤĠŤAĊĠĠĠĠŤĠĠĠĠŤĊAAĠĊAŤĊĠĊĠŤĊĊŤĠĠĠĊĊĂŤ	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTGCTTGCAGACGCGCGCG	2542
Sbjct	2461	TAAGTĠĠĠĠĠĠĊĠĊĠĊĠĊĊĊĊĊĊĊĠĊĊĊĊĊĊĠĊ	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	ĊŢŢĠŢĠĠĸŢĠĸŢĠĊŢĸĊŢĊĸŢĸŢĊĊĸĸĠĊĠĠĸĠĠĊĠĠĊŢŢŢĠĠĸĠĸĸĊĊŢĊĠŢĸĸŢĸĊŢ	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TĠĊATĠĠŤĀTTŤĠĀĀĠĠĠŤĀĀĠŤĠĠĠŤĠĊĊĠĠĀĠĊĠĠŤĊŤĀĊĀĊĊŦŤĊŤĀĊĠĠĠĀŤĠŤĠ	2700
Query	2723	GCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	ĠĊĊŦĊŦĊĊŦĊĊŦĠĊŦĊĊŦĠŦŦĠĠĊĠŦŦĠĊĊĊĊĂĠĊĠĠĠĊĠŦĂĊĠĊĠĊŦĠĠĂĊĂĊĠĠĀĠĠŦ	2760
Query	2783	GGCCGCGTCGTGTGCCGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	ĠĠĊĊĠĊĠŤĊĠŤĠŤĠĠĊĠĠŦĠŤŤĠŤŤĊŤĊĠŤĊĠĠĠŤŤĠĂŤĠĠĊĠĊŤĠĂĊŤĊŤĠŤĊAĊĊĂŤĂ	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	ttacaagcgctatatcagctggtgcttgtggtggcttcagtattttctgaccagagtgga	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTCCCcccCTCAACGTCCggggggggCGCGATGCCGTCAT	2962
Sbjct	2881	agcgcaactgcacgtgtgattcccccctcaacgtccgaggggggcgcgacgccgtcat	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	2941	ĊŦŦĀĊŦĊĀŦĠŦĠŦĠĊŦĸĠŦĀĊĀĊĊĠĀĊŦĊŦĠĠŦĀŦŦŦĠĀĊĀŦĊĀĊĊĀĀĀŦŦĠĊŦĠĊŦĠĠ	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	ccgtcttcggacccctttggattcttcaagccagtttgcttaaagtaccctactttgtgc	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140

Sbjct	3060	GCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATTAAGTTAGGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCAACGGCTTGCCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCCTGTCATCCAGATGTACCAATGTGGACCAAGACCTTGTGGGCCTGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	acgaggcacgccgatgtcattcccgtgcgccggcggggtgatagcaggggcagcctgctg	3778
Query	3801	TCGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	rcgccccggcccattrcctactrgaaaggctcctcggggggtccgctgtrgtgccccgcg	3838
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	ĠĠĠĊĀĊĠĊĊĠŤĠĠĠĊĀŤĀŤŤŦĀĠĠĠĊĊĠĊĠĠŤĠŤĠĊĀĊĊĊĠŤĠĠĀĠŤĠĠĊŤĀĀĠĠĊĠĠŤĠ	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	ĠAĊŦŦŦĀŦĊĊĊŦĠŦĠĠĀĠĀĀĊĊŦĀĠĀĠĀĊĀĀĊĊĀŦĠĀĠĠŦĊĊĊĊĠĠŦĠŦŦĊĀĊĠĠĀŦĀĀĊ	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	tcctctccaccagtagtgccccagagcttccaggtggctcacctccatgctccacaggc	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	agcggcaaaagcaccaaggtcccggctgcatatgcagctcagggctataaggtgctagta	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	ctcaacccctctgttgctgcaacactgggctttggtgcttacatgtccaaggctcatggg	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	atcgatcctaacatcaggaccggggtgagaacaattaccactggcagccccatcacgtac	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280

Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGGG	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGAC	4858
Query	4881	TCGTCCGTCCTCTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	tcccagacaaagcagagtggggagaaccttccttacctggtagcgtaccaagccaccgtg	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
Sbjct	5219	GAAATCACCCTGACGCACCCAGTCACCAAATACATCATGACATGCATG	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420

Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399		5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458		5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518		5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578		5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638		5697
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGTGGGTGCCCAGCTCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGGGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	ccctccacgagacctggtcaatctactgcccgccatcctctcgcccggagccctcgt	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	agtóggcgtggtótgtgcagcaatactgcgccggcacgttggcccgggcgagggggagt	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	ĠĊĀĠŦĠĠĀŦĠĀĀĊĊĠĠĊŦĠĀŦĀĠĊĊŦĊĊĠĊĠĠĠĠĠĀĀĊĊĀŦĠŦŦŦĊĊĊĊĀĊĠĊĀ	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	ĊŦĀĊĠŦĠĊĊĠĠĀĠĀĠĊĠĀŦĠĊĀĠĊŦĠĊĊĠĊĠŤĊĀĊŦĠĊĊĀŦĀĊŦĊĀĠĊĀĠĊĊŦĊĀĊŦĠŦ	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AÁCCCÁGCTCCTGÁGGCGÁCTGCÁCCÁGTGGÁTAÁGCTCGGÁGTGTÁCCÁCTCCÁTGCTC	6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	ĊĠĠŦŦĊĊŦĠĠĊŦĂĂĠĠĠĂĊĂŦĊŦĠĠĠĂĊŦĠĠĂŦĂŦĠĊĠĂĠĠŦĠŦŦĠĂĠĊĠĂĊŦŦŦĂĂĠĂĊ	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	ĊŢĠĠĊŢĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	ċĠĠĠŦĀŦĀĀĠĠĠĠĠŦĊŦĠĠċĠĀĠŦĠ—ĠĀĊĠĠĊĀŦĊĀŦĠĊĀĊĀĊŦĠĊĠĊŦĠĊĠĠĠ	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	ctgagatcactggacatgtcaaaaacgggacgatgaggatcgtcgtcggtcctaggacctgca	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558

Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	taaggcaggtgggggacttccactacgtga-cgggtatgactactgacaatctcaaatgc	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	ccgtgccaggtcccatcgcccgaattttcacagaattggacggggtgcgcctacatagg	6715
Query	6738	TTTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbjct	6716	ŤŤŤĠĊĠĊĊĊĊĊŤĠĊÀAĠĊĊĊŤŤĠĊŤĠĊĠĠĠĀĠĠĀĠŤĀŤĊĂŤŤĊĀĠĀĠŤĀĠĠĀĊŤĊĊĀĊ	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	ĠĂATĂĊĊĊĠĠŤAĠĠĠŤĊĠĊĂĂŤŤĂĊĊŤŤĠĊĠĂĠĊĊĊĠĂĂĊĊĠĠĂĊĠŤĠĠĊĊĠŤĠŤŤĠĂĊĠ	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	ŤĊĊŔŤĠĊŤĊŔĊŤĠŔŤĊĊĊŤĊĊĊŔŤŔŤŔŔĊŔĠĊŔĠŔĠĠĊĠĠĠĊĊĠĠĠĊĠŔŔĠĠŤŤĠĠĊĠŔĠ	6894
Query	6918	GGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	ĠĠĠAŤĊĂĊĊĊĊĊĊŤĊŤĠŤĠĠĊĊĂĠĊŤĊĊŤĊĠĠĊŤĂĠĊĊĂĠĊŤAŤĊĊĠĊŤĊĊĂŤĊŤĊŤĊĂĀ	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTTCCATGccccccTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCTATTCCTCCATGCCCCCCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC CGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7554 7636
Query	7577 7555	CGACACGGAAGAIGICGIGIGCIGCICAAIGICIIAIICCIGGACAGGCGCACICGICAC	7614
Sbjct		CCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7614
Query	7637		1090

Sbjct	7615	CCCGTGCGCCGCGGAAGAACAGAAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675		7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	ĠĊĊĊĊĠĊĠĊĊĠĠĊĊĠĠĊĊĠĠĠĊĠĠĠĊĠĠĠĊĠĠĠĊĠĠĠĊĠĠĠĠ	7914
Query	7937	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	ĊĀĠĀĀĀĠĠĊĊĠŤĀĀĊĊĊĀĊĀŤĊĀĀĊŤĊĊĠŤĠŤĠĠĀĀĀĠĀĊĊŤŤĊŤĠĠĀĀĠĀĊĀĀŤĠŤĀĀĊ	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCGGGGGGGGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGGCTATCGCAGGTGCCGCGCGCGGGGGGGGGG	8453 8535
Query Sbict	8476 8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8513
2	8536	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Query Sbict	8514	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8573
2	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGccccccagaga	8655
Query Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGGGGGGGG	8633
Query	8656	accccccccccccccccccccccccccccccccccccc	8715
Sbjct	8634	### ACCCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8693
Query	8716	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8775
Sbjct	8694	TCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACCTCCAGTCAATTCCTGGCTAGGCAACA	8835
∑п∈т ў	0110		0000

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8754
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                                                      8813
Sbjct
     8836
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                                                      8895
Query
         8814
                                                      8873
Sbjct
     8896
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                                                      8955
Query
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Sbjct
     8874
                                                      8933
     8956
         ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT
                                                      9015
Query
         8934
                                                      8993
Sbjct
Query
     9016
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                                                      9075
         8994
         TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC
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                                                      9135
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     9054
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Sbjct
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Query
     9136
                                                      9195
         9114
                                                      9173
Sbjct
         Query
     9196
                                                      9255
         9174
                                                      9233
Sbjct
     9256
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                                                      9315
Query
         9234
                                                      9293
Sbjct
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                                                      9375
Query
     9316
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Sbjct
     9294
                                                      9353
Query
     9376
         GAAGGTTGGGGTAAACACTCCGGCCT
                             9401
         9354
         GAAGGTTGGGGTAAACACTCCGGCCT
                             9379
Sbjct
>dbj|DJ491512.1|
             HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379
Score = 1.516e+04 bits (8209), Expect = 0.0 Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus
         CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG
Query
     23
                                                      82
         CÁCTCCÁCCÁTGAÁTCÁCTCCCCTGTGÁGGÁACTÁCTGTCTTCÁCGCÁGÁAÁGCGTCTÁG
     1
                                                      60
Sbjct
         CCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAcccccCTCCCGGGAGAGCCATA
     83
Query
     61
         ĊĊĂŢĠĠĊĠŢŢŔĠŢŔŢĠŔĠŢĠŢĊĠŢĠĊŔĠĊĊŤĊĊŔĠĠŔĊĊĊĊĊĊŢĊĊĊĠĠĠŔĠŔĠĊĊŔŢŔ
                                                      120
Sbjct
Query
     143
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                                                      202
         121
                                                      180
Sbjct
     203
         TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT
                                                      262
Query
          TCAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT
     181
                                                      240
Sbjct
         GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG
Query
     263
         GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG
Sbjct
     241
                                                      300
         GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA
                                                      382
Query
     323
         301
                                                      360
Sbjct
     383
         \tt CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT
                                                      442
Query
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Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421		480
Query	503	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG	562
Sbjct	481		540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	ggggtacataccgctcgtcggcgccctcttggaggcgctgccagggccctggcatgg	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	ĊĠŦĊĊĠĠĠŦŦĊŦĠĠĂĂĠĂĊĠĠĊĠŦĠĂĂĊŦĂŦĠĊĂĂĊĂĠĠĠĂĂĊĊŦŦĊĊŦĠĠŦŦĠĊŦĊŦŦŦ	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTTTGCTTGACTGTGCCCGCTTCGGCCTACCAAGT	900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCCGATGCCATCCTGCACACTCCGGGGTGCGTCCCTTGCGTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCCGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACTCCC CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1080 1162
Query Sbjct	1003	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbict	1141		1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCCCGGCCATATAAC	1282
Sbjct	1201		1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261		1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321		1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381		1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441		1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCCAAGCAGAACATCCAACTGAT	1582

Sbjct	1501	CACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561		1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	tgccaacggaagcgccccgaccagcgcccctactgctgcactacccccaaaaccttg	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CĠĠŦĂŤŤĠŤĠĊĊĠĊĠĂĂĠĂĠŦĠŤĠŤĠŤĠĠŦĊĊĠĠŤĂŤĂŤŤĠĊŤŤĊĂĊŤĊĊĊĂĠĊĊĊĊĠŤ	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCCCCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCCTTAACACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACACCCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101 2183	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAG  GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2160
Query Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCATTACACCATATTCAAAGTCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221		2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbict	2281		2340
Query	2363	CCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341		2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401		2460
Query	2483	TAAGTGGGAGTACGTCGTTCCTGTTCCTTGCTGCAGACGCGCGCG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCCTGTTCCTTGCTGCAGACGCGCGCG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521		2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722

Sbjct	2641	TGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	dcctctcctcctcctcttgttgccgttgcccagcggcgtacgcgctggacacggaggt	2760
Query	2783	GGCCGCGTCGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	ĠĠĊĊĠĊĠŤĊĠŤĠŤĠĠĊĠĠŦĠŤŤĠŤŤĊŤĊĠŤĊĠĠĠŤŤĠĂŤĠĠĊĠĊŤĠĂĊŤĊŤĠŤĊĂĊĊĂŤĂ	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	ŤŤÁČÁÁĠĊĠĊŤÁŤÁŤĊÁĠĊŤĠĠŤĠĊŤŤĠŤĠĠŤĠĠĊŤŤĊÁĠŤÁŤŤŤŤĊŤĠÁĊĊÁĠÁĠŤĠĠÁ	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTccccccTCAACGTCCggggggggCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCCGAGGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCTTCTCCGGTTCTGCGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3178
Sbjct Query	3201	ACCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179		3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239		3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299		3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	cagcagacaaggggcctcctagggtgcataatcaccagcctaactggccggacaaaaac	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	ĊAAĠŢĠĠĀĠĠŢĠĀĠĠŢĊĊĀĠĀŢŢĠŢĠŢĊĀĀĊŢĠĊĊĀĀĀĊĊŢŢĊĊŢĠĠĊĀĀĊĠŢĠĊ	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ÁTCAÁTGGGGTGTGCTGGÁCTGTCTÁCCÁCGGGGCCGGÁÁCGÁGGÁCCÁTCGCGTCÁCCC	3598
Query	3621	AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860

Sbjct	3779	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGGGGGGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	tccgtcactgtgccccatcccaacatcgaggaggttgctctgtccaccaccggagagatc	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	ĠĊĊĠŦĠĠĊĊŦĂĊŦĂĊĊĠĊĠĠŦĊŦŦĠĂĊĠŦĠŦĊĊĠŦĊĂŦĊĊĊĠĂĊĊĂĠĊĠĠĊĠĂŦĠŦŦĠŦĊ	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	ĠŤĊĠŤĠĠĊĸĸĊĊĠĸŤĠĊĊĊŤĊĸŤĠĸĊĊĠĠĊŤĸŤĸĊĊĠĠĊĠĸĊŤŤĊĠĸĊŤĊĠĠŤĠĸŤĸĠĸĊ	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	ŤĠĊĀĀTĀĊĠŤĠŤĠŤĊĀĊĊĆĀĠĀĊĀĠŤĊĠĀŤŤŤĊĀĠĊĊŤŤĠĀĊĊĆŤĀĊĊŤŤĊĀĊĊĀŤŤĠĀĠ	4738
Query	4761	ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	acaatcacectccccaeeatectctcccecactcaacetceeeaeacteeeae	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGAGCGCCCCTCCGGCATGTTCGAC	4880
Sbjct	4799	gggaagccaggcatctacagatttgtggcaccgggggagcgcccctccggcatgttcgac	4858
Query	4881	TCGTCCGTCCTCTGGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	rcgrccgrccrcrgrgagrgcrargacgcaggcrgrgcrrggrargagcrcacgcccgcc	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000

Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	tcccagacaaagcagagtgggagaaccttccttacctggtagcgtaccaagccaccgtg	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
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Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
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Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
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Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGCCGCGTAT	5360
Sbjct	5279	gaggtcgtcacgagcacctgggtgctcgttggcggcgtcttggctgcttttggccgcgtat	5338
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Sbjct	5339	tgcctgtcaacaggctgcgtgtcatagtgggcagggtcgtcttgtccgggaagccggca	5398
Query	5421	ATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	atcatacctgacaggaagtcctctaccgag-agttcgatgagatggaagagtgctctca	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	gcacttaccgtacatcgagcaagggatgatgctcgccgagcagttcaagcagaaggccct	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	cgcctcctgcagaccgcgtcccgtcaggcagaggttatcgcccctgctgtccagaccaa	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578	ctggcaaaaactcgagaccttctgggcgaagcatatgtggaacttcatcagtgggataca	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	atacttggcgggcttgtcaacgctgcctggtaaccccgccattgcttcattgatggcttt	5697
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	tacagetgetgteaceageecactaaceactageeaaaceeteeteteteacatattggg	5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	ĠĠĠĠŦĠĠĠŦĠĠĊŦĠĊĊĊĠĠĊĊĠĊĊĊĠĠŦĠĊĊĠĊŦĂĊŦĠĊĊŦŦŦĠŦĠĠĠĊĠĊŦĠĠ	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	ĊŢŢŖĠĊŢĠĠĊĠĊĊĸŢĊĠĠĊĸĠŢĠŢŢĠĠĸĊŢĠĠĠĠĸĸĠĠŢĊĊŢĊĸŢĸĠĸĊĸŢĊĊŢŢĠĊ	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGGGGGGGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
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Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139

Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	ctacgtgccggagagcgatgcagctgcccgcgtcactgccatactcagcagcctcactgt	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	aacccagctcctgaggcgactgcaccagtggataagctcggagtgtaccactccatgctc	6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	ĊĠĠŦŦĊĊŦĠĠĊŦĸĸĠĠĠĸĊĸŦĊŦĠĠĠĸĊŦĠĠĸŦĸŦĠĊĠĸĠĠŦĠŦŦĠĸĠĊĠĸĊŦŦŦĸĸĠĸĊ	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	ĊŢĠĠĊŢŖŖŖĠĊŢŖŖĠĊŢĊŖŢĠĊĊŖĊŖĠĊŢĠĊĊŢĠĠĠŖŖŢĊĊĊŢŢŢĠŢĠŢĊĊŢĠĊĊŖĠĊĠ	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	ĊĠĠĠŦŔŦŔŔĠĠĠĠĠŦĊŦĠĠĊĠŔĠŦĠ~ĠŔĊĠĠĊŔŦĊŔŢĠĊŔĊŦĊĠĊŦĠĊĊŔĊŦĠŦĠĠŔĠ	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	ctgagatcactggacatgtcaaaaacgggacgatgaggatcgtcgtcggtcctaggacctgca	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	ĠĠaaĊaŤĠŤĠĠaĠŤĠĠĠaĊĊŤŤĊĊĊĊāŤŤaaŤĠĊĊŤaĊaĊĠĠĠĊĊĊĊŤĠŤaĊĊĊĊĊ	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	ccgtgccaggtccatcgcccgaattttcacagaattggacggggtgcgcctacatagg	6715
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Sbjct	6716	titigcigcicciccitigcitigcitigcitigcitig	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	ĠAATAĊĊĊĠĠŦAĠĠĠŦĊĠĊAATŦAĊĊŤŦĠĊĠĀĠĊĊĊĠĀĀĊĊĠĠĀĊĠŦĠĠĊĊĠŦĠŦŦĠĀĊĠ	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCCAA	6976
Sbjct	6895	ġĠĠatĊaĊĊĊĊĊĊĊĊţĠţĠĠĊĊĠĠĊţĊĊţĠĠĊţĠĠĊţĠĊĠĊţĊĊaţĊţĊā	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	ĠĠĊāaĊŦŦĠĊāĊĠĊŦāāĊĊāŦĠāĊŦĊĊĊĊŦĠāŦĠĊŦĠāĠĊŦĊāŦāĠāĠĠĊĊāāĊĊŦĊĊŦ	7014
Query	7037	GTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	atggaggcaggagatgggcgcaacatcaccagggttgagtcagaaaacaaagtggtgat	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	tctggactccttcgatccgcttgtggcggaggacgagcggggagatctccgtacccgc	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	agaaatcctgcggaagtctcggagattcgcccaggccctgcccgtttgggcgcggccgga	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276

Sbjct	7195	CTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
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Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
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Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTTCCATGcccccCTGGA	7516
Sbjct	7435	cccttctggctgccccccgactccgacgctgagtcctattcctccatgcccccctgga	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	ĠĠĠĠĠĠĠĊĊŦĠĠĠĠĂŦĊĊĠĠĂŦĊŦŦĀĠĊĠĀĊĠĠĠŦĊĀŦĠĠŦĊĀĠŦĀĠŦĠĀĠĠĊ	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	ĊAAĊĠĊĠĠĀĠĠĀŤĠŤĊĠŤĠŤĠĊŤĠĊŤĊĀĀŤĠŤĊŤŤĀĊŤĊŦŤĠĠĀĊĀĠĠĊĠĊĀĊŤĊĠŤĊĀĊ	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCGCCGCGGAAGAACAGAAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
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Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC GCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7854 7936
Query Sbjct	7877 7855	GCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGGCAAAAGACGTCCGTTGCCATGC	7936
Query	7937	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975		8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035		8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095		8153
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Sbjct	8154		8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214		8273
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Sbjct	8274		8333
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         8574
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    9136
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         9114
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Sbjct
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Query
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Sbjct
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>dbj|DJ047428.1|
            HEPATITIS C VIRUS (HCV) POLYPEPTIDES
Length=9379
Score = 1.516e+04 bits (8209), Expect = 0.0 Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
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S	t	r	а	n	a:	=.	Р	T	u	S	/	Р	$\perp$	u	S	

Query	23	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	82
Sbjct	1	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	60
Query	83	CCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAcccccCTCCCGGGAGAGCCATA	142
Sbjct	61	CCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGACCCCCCCC	120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	202
Sbjct	121	gradictaccadaccadractaccadaatraccadaccadaccad	180
Query	203	TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	tcaacccgctcaatgcctggagatttgggcgtgcccccgcaagactgctagccgagtagt	240
Query	263	GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCCTTGCGAGTGCCCCGGGAG	322
Sbjct	241	ĠŦŦĠĠĠŦĊĠĊĠĂĀĀĠĠĊĊŦŦĠŦĠĠŦĀĊŦĠĊĊŦĠĀŦĀĠĠĠŦĠĊŦŦĠĊĠĀĠŦĠĊĊĊĠĠĠĀĠ	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACCGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	ĠŤĊŤĊĠŤĂĠĂĊĊĠŤĠĊĂĊĊĂŤĠĂĠĊĂĊĠĂĂŤĊĊŤĂĂĂĊĊŤĊĂĂĂĂĂĂĂĂ	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	442
Sbjct	361	ĊĂĊĊĂĂĊĊĠŤĊĠĊĊĊĂĊĂĠĠĂĊĠŤĊĂĂĠŤŤĊĊĊĠĠĠŤĠĠĊĠĠŤĊĂĠĂŤĊĠŤŤĠĠŤĠĠĀĠŤ	420
Query	443	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG	562
Sbjct	481	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCTCGTCGGCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
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Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	720
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Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803 781	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862 840
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Query Sbjct	841		900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901		960
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Sbjct	961		1020
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Sbjct	1013		1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
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Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	ĊĊŦĊŦŔĊĠŦĠĠĠĠĠŔĊĊŦŔŦĠĊĠĠĠŦĊŦĠŦĊŦŦŦĊŦŦĠŦĊĠĠĊĊŔŔĊŦĠŦŦĊŔĊĊŦŦĊŦĊ	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCCCGGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGCCAAGGTTGCAATTGCTCTATCTA	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT	1582
Sbjct	1501	CACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGCCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGCCTCGACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741 1823	TGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1800 1882
Query Sbjct	1801		1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921		1980
Ouerv	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981		2040
Query	2063	GGGCAACACCCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041		2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101		2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161		2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302

Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	ggaagacagggacaggtccgagctcagcccgttactgctgaccactacacagtggcaggt	2340
Query	2363	CCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	ĊĊŢĊĊĠŢĠŢŢĊĊŢŢĊĂĊĀĊĊŢĀĊĊĀĠĊĊŢĠŢĊĊĀĊĊĠĠĊĊŢĊĀŢĊĊĀĊĊĀ	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTCTGCTTGCAGACGCGCGCG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTGCTGCAGACGCGCGCG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581 2663	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	2640 2722
Query	2641	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct Query	2723	GCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701		2760
Query	2783	GGCCGCGTCGTGTGCCGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761		2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821		2880
Query	2903	AGCGCAACTGCACGTGTGGGTT cccccctCAACGTCCgggggggGCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCCGAGGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	ccgtcttcggacccctttggattcttcaagccagtttgcttaaagtaccctactttgtgc	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	ĠĊĠŤĊĊĂĂĠĠĊĊŤŤĊŤĊĊĠĠŦŤĊŤĠĊĠĊĠŦŤĂĠĊĠĊĠĠĂĂĠĂŤĠĂŦĊ~ĠĠĂĠĠĊĊĂŤŤĂĊ	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCAGTTAGGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299 3381	GGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3358 3440
Query	JOOT		2440

Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	cagcagacaaggggcctcctagggtgcataatcaccagcctaactggccggacaaaaac	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	ĊAAĠŦĠĠAĠĠĠŦĠAĠĠŦĊĊAĠAŦŦĠŦĠŦĊAAĊŦĠĊŦĠĊĊAAAĊĊŦŦĊĊŦĠĠĊAAĊĠŦĠĊ	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ÁTCAÁTGGGGTGTGCTGGÁCTGTCTÁCCÁCGGGGCCGGÁÁCGÁGGÁCCÁTCGCGTCÁCCC	3598
Query	3621	AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838 3920
Query	3861 3839	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899		3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959		4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019		4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	atcgatcctaacatcaggaccggggtgagaacaattaccactggcagccccatcacgtac	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGGGGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	ŤĊĊĂĊĊŤĂĊĠĠĊĂĂĠŤŤĊĊŤŤĠĊĊĠĂĊĠĠĊĠĠŢĠĊŤĊĠĠĠĠĠĠĊĠĊŤŤĂŤĠĂĊĂŤĂĂŤĂ	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAACTGCGGGGGCGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580

Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	ĠĊĊĠŦĠĠĊĊŦĂĊŦĂĊĊĠĊĠĠŤĊŦŦĠĂĊĠŦĠŦĊĊĠŤĊĂŤĊĊĊĠĂĊĊĂĠĊĠĠĊĠĂŦĠŦŤĠŤĊ	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	ĠŤĊĠŤĠĠĊĸĸĊĊĠĸŤĠĊĊĊŤĊĸŤĠĸĊĊĠĠĊŦĸŤĸĊĊĠĠĊĠĸĊŤŤĊĠĸĊŤĊĠĠŤĠĸŤĸĠĸĊ	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	rgcaaracgrgrgrcacccagacagrcgarrrcagccrrgacccraccrrcaccarrgag	4738
Query	4761	ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	a caatcac gc t c c c c a g a t g c t c t c c c g c a c t c a a c g t c g g g c a g a c t g g c a g	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGGG	4880
Sbjct	4799	ĠĠĠāāĠĊĊāĠĠĊāŤĊŤāĊāĠāŤŤŤĠŤĠĠĊāĊĊĠĠĠĠĠĠĠĊĠĊĊĊŤĊĊĠĠĊāŤĠŤŤĊĠāĊ	4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	régrécéréctérégagréctaréacécaégérégérégéraréageréacécéécé	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	ĠĠĠĠĊŦĠĊĠĠĠĊŦĠĊĠĠĠĠĊĠŦĠĊĠŦĠĠĠĊĊĊĊĠĠĠĠĊŦŦĊĊĊĠŦĠŦĠĊĊĠĠĠĊ	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	ŤĊĊĊĀĠĀĊĀĀĀĠĊĀĠĀĠŤĠĠĠĠĀĠĀĀĊĊŤŤĊĊŤŤĀĊĊŤĠĠŤĀĠĊĠŤĀĊĊĀĀĠĊĊĀĊĊĠŤĠ	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	ŤĠĊĠĊŤĂĠĠĠĊŤĊĂĂĠĊĊĊĊŤĊĊĊĊĊĂŤĊĠŤĠĠĠĂĊĊĂĠĂŤĠŤĠĠĂĂĠŤĠŤŤŤĠĂŤŦĊĠĊ	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	ĊŤĊĂĂĠĊĊĊĂĊĊĊŤĊĊĂŤĠĠĠĊĊĂĂĊĂĊĊĊĊŤĠĊŤĂŤĂĊĂĠĂĊŤĠĠĠĊĠĊŤĠŤŤĊĂĠĂĂŤ	5218
Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
Sbjct	5219	ĠĂĂATĊĂĊĊĊŢĠĂĊĠĊĂĊĊĊĀĠŢĊĂĊĊĂĂĂŢĂĊĂŢĊĂŢĠĀĊĂŢĠĊĀŢĠŢĊĠĠĊĊĠĂĊĊŢĠ	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGCGTCTTGGCCGCGTAT	5360
Sbjct	5279	ĠĂĠĠŤĊĠŤĊĂĊĠĂĠĊĂĊĊŤĠĠĠŤĠĊŤĊĠŤŤĠĠĊĠĠĊĠŤĊĊŤĠĠĊŤĠĊŤŦŤĠĠĊĊĠĊĠŤĂŤ	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ÁTCÁTÁCCTGÁCÁGGGÁAGTCCTCTÁCCGÁG–ÁGTTCGÁTGÁGÁTGGÁÁGÁGAGTGCTCTCÁ	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	ĠĊĂĊŢŢĂĊĠŢĂĊĂŢĊĠĂĠĊĀĀĠĠĠĂŢĠĂŢĠĊŢĊĠĊĊĠĀĠĊĀĠŢŢĊĀĀĠĊĀĠĀĀĠĠĊĊĊŢ	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	ĊĠĠĊĊŢĊĊŢĠĊĀĠĀĊĊĠĊĠŢĊĊĠŢĊĀĠĠĊĀĠĀĠĠŢŢĀŢĊĠĊĊĊŢĠĊŢĠŢĊĊĀĠĀĊĊĀĀ	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578	ĊŤĠĠĊŔĸŔĸĸĸĊŤĊĠŔĠĸĊĊŤĊŤĠĠĠĊĠŔĸĠĊŔŦŔŤĠŤĠĠŔĸĊŤŤĊŔŤĊŔĠŤĠĠĠŔŤŔĊŔ	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719

Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	tacagetgetgicaceageceactaaceactagecaaacectecteteteacatattggg	5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	ĠĠĠĠŤĠĠĠŤĠĠĊŤĠĊĊĊĂĠĊŤĊĠĊĊĠĊĊĊĊĠĠŤĠĊĊĠĊŤĂĊŤĠĊĊŤŤŤĠŤĠĠĠĊĠĊŤĠĠ	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	GCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT  AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6177 6259
Query	6178	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Sbjct Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238		6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298		6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	ttcctgcgccgaactacacgttcgcgctatggagggtgtctgcagaggaatatgtggaga	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	taaggcaggtgggggggacttccactacgtga-cgggtatgactactgacaatctcaaatgc	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	ccgtgccaggtcccatcgcccgaattttcacagaattggacggggtgcgcctacatagg	6715
Query	6738	TTTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbjct	6716	tttgcgccccctgcaagcctttgctgcggaggaggtatcattcagagtaggactccac	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857

Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACG	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	tccatgctcactgatccctcccatataacagcagaggcggccggaggctgaggttggcgag-	6894
Query	6918	GGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTAA	6976
Sbjct	6895	ġĠĠatċáċċċċċċtċtgtġĠċċáġċtċċtċġġċtáġċċáġċtatċċġċtċċátċtċáá	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	ĠĠĊŔĂĊŤŤĠĊĂĊĊĠĊŦŔĂĊĊĂŤĠĂĊŤĊĊĊĊŤĠĂŤĠĊŦĠĂĠĊŤĊĂŤĂĠĂĠĠĊĊŔĂĊĊŤĊĊŤ	7014
Query	7037	GTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATĠĠŔĠĠĊŔĠĠŔĠŔŢĠĠĠĊĠĠĊŔŔĊŔŢĊŔĊĊŔĠĠĠŢŢĠŔĠŢĊŔĠŔĸŔŔĊŔŔŔĠŢĠĠŢĠŔŢ	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTTCCATGccccccTGGA	7516
Sbjct	7435 7517	CCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCTATTCCTCCATGCCCCCCTGGA GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGC	7494 7576
Query Sbjct	7495	GGGGGAGCCIGGGGATCCCGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGCC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbict	7555		7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbict	7615		7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675		7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735		7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795		7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855		7914
Query	7937	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996

Sbjct	7915	CAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975		8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035		8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095		8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154		8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214		8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274		8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334		8393
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394		8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCGGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGccccccaggg	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCTGGGG	8633
Query	8656	### ##################################	8715
Sbjct	8634	acccccacaaccagaatacgacttggagctcataacatcatgctcctccaacgtgtcag	8693
Query	8716	TCGCCCACGACGCCCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8775
Sbjct	8694	ŤĊĠĊĊĊŔĊĠŔĊĠĠĊĠĊŤĠĠŔŔŔĠĠĠŤĊŤŔĊŤŔĊŤĊŔĊĊĊĠŤĠŔĊĊĊŤŔĊŔŔĊĊĊĊĊ	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	TÄÄTCÄTGTTTĞCCCCCACACTĞTĞĞĞCĞAĞĞATĞATACTĞATĞACCCATTTCTTTAĞCĞ	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	tccttatagccaggaccagcttgaacaggcctcgattgcgagatctacggggcctgct	8933
Query	8956	ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCÁTAGAÁCCACTTGÁTCTÁCCTCCÁÁTCÁTTCÁÁAAGACTCCÁTGGCCTCÁGCGCÁT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC	9075
Sbjct	8994	ŤŤŤĊĂĊŤĊĊĂĊĂĠŤŤĂĊŤĊŤĊĊĂĠĠŤĠĂŔĂŤŦĂĂŤĂĠĠĠŤĠĠĊĊĠĊĂŤĠĊĊŤĊĂĠŔĂĂĂĊ	9053
Query	9076	TTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9135

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9054
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                                                  9113
Sbjct
    9136
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                                                  9195
Query
        9114
                                                  9173
Sbjct
        9255
    9196
Query
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Sbjct
    9174
                                                  9233
    9256
        CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCCGCTGGT
                                                  9315
Query
        9234
                                                  9293
Sbjct
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Query
    9316
                                                  9375
        9294
        TCTGGTTTTGCCTACTCCTGCTTGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGAT
                                                  9353
Sbjct
        GAAGGTTGGGGTAAACACTCCGGCCT
Query
    9376
                           9401
        Sbjct
    9354
        GAAGGTTGGGGTAAACACTCCGGCCT
                           9379
>dbj|DD495902.1| HEPATITIS C VIRUS(HCV) POLYPEPTIDES
Length=9379
Score = 1.516e+04 bits (8209), Expect = 0.0 Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus
    23
        CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG
                                                  82
Query
        Sbjct
    1
    83
        142
Query
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Sbjct
    61
                                                  120
        GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA
Query
    143
                                                  202
        GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA
                                                  180
Sbjct
    121
    203
        TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT
                                                  262
Query
        240
Sbjct
    181
    263
        GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG
                                                  322
Query
        Sbjct
    241
                                                  300
        GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA
                                                  382
Query
    323
        301
                                                  360
Sbjct
    383
        CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT
                                                  442
Query
        361
        ĊĂĊĊĂĂĊĊĠŤĊĠĊĊĊĂĊĂĠĠĂĊĠŤĊĂĂĠŤŤĊĊĊĠĠĠŤĠĠĊĠĠŤĊĂĠĂŤĊĠŤŤĠĠŤĠĠĀĠŤ
                                                  420
Sbjct
Query
    443
        TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA
                                                  502
        421
                                                  480
Sbjct
    503
        GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG
                                                  562
Query
        481
                                                  540
Sbjct
        GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC
Query
    563
                                                  622
        GÁCCTGGGCTCÁGCCCGGGTÁCCCTTGGCCCCTCTÁTGGCÁÁTGÁGGGCTGCGGGTGGGC
Sbjct
    541
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Query
    623
                                                  682
        601
                                                  660
Sbjct
    683
        TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT
                                                  742
Query
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Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCCCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721		780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781		840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTTTGCTTGACTGTGCCCGCTTCGGCCTACCAAGT	900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCCGATGCCATCCTGCACACTCCGGGGTGCGTCCCTTGCGTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCCGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	cgcgacgcagctrcgacgtcacatcgatctgcttgtcgggagcgccaccctctgttcggc	1140
Query	1163	CCTCTACGTGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	cctctacgtggggacctatgcgggtctgtctttcttgtcggccaactgttcaccttctc	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCCCGGCCATATAAC	1282
Sbjct	1201	tcccaggcgccactggacgacgcaaggttgcaattgctctatcta	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	ĠĠĠŤĊĂĊĊĠĊĂŤĠĠĊĂŤĠĠĠĂŤĂŤĠĂŤĠĂŤĠĂĊŤĠĠŤĊĊĊĊŤĂĊĠAĊĠĠĊĠŤŤĠĠŤAAŤ	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT	1582
Sbjct	1501	CACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681 1763	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA  TGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGCCACTACCCTCCAAGACCTTG	1740 1822
Query	1763	IGCCAACGGAAGCGGCCICGACGAACGCCCCIACIGCIGCACIACCCICCAAGACCIIG	1822
Sbjct Query	1823	TGCCAACGGAAGCGCCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG	1882
∑п∈т	1043		1002

Sbjct	1801	CGGTATTGTGCCCGCGAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTAC	1942
Sbjct	1861	ĠĠŦĠĠŦĠĠĠaĊĠaĊĊĠaĊaĠĠŦĊĠĠĠĊĠĊĠĊĊĊaĊĊŦaĊaĠĊŦĠĠĠĠŦĠaaaaŦĠaŦaĊ	1920
Query	1943	GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921	ġĠacġtċttċġtċċttaaċaataċċaġĠċċaċċĠċtġĠĠċaattġĠttċĠġttġtaċċtġ	1980
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	ĠATĠAAĊŢĊAAĊŢĠĠAŢŢĊAĊĊAAAĠŢĠŢĠĊĠĠAĠĊĠĊĊŢĊĊŢŢĠŢĠŢĊAŢĊĠĠAĠĠĠĠĊ	2040
Query	2063	GGGCAACACCCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	ĠĠĠĊāāĊāĊĊāĊĊĠĊāĊĊĠĊĠĊŤĠāŤŤĠĊŤŤĊĊĠĊāāĠĊāŤĊĊĠĠāĊĠĊĊāĊāŤā	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	ctctcggtgcggctccggtccctggatcacacccaggtgcctggtcgactacccgtatag	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	gctttggcattatccttgtaccatcaactacaccatatttaaaatcaggatgtacgtgg	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	ggaagacagggacaggtccgagctcagcccgttactgctgaccactacacagtggcaggt	2340
Query	2363	CCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	cctcccgtgttccttcacaaccctaccagccttgtccaccggcctcatccaccta	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCCTGTTCCTTCTGCTTGCAGACGCGCGCG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCCTGTTCCTTGCTGCAGACGCGCGCG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	cttgtggatgatgctactcatatcccaagcggaggcggctttggagaacctcgtaatact	2580
Query	2603	CAATGCAGCATCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581	TAATĠĊĀĠĊĀŤĊĊĊŤĠĠĊĊĠĠĠĀĊĠĊĀĊĠĠŤĊŤŤĠŤĀŤĊĊŤŤĊĊŤ	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	tgcatggtatttgaagggtaagtgggtgcccggagcggtctacaccttctacgggatgtg	2700
Query	2723	GCCTCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	ĠĊĊŦĊŦĊĊŦĠĊŦĊĊŦĠŦŦĠĠĊĠŦŦĠĊĊĊĊĂĠĊĠĠĠĊĠŦĂĊĠĊĠĊŦĠĠĂĊĂĊĠĠĀĠĠŦ	2760
Query	2783	GGCCGCGTCGTGGCGGCTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGGCGGTGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTCACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTcccccaTCAACGTCCggggggggCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCCGAGGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021

Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	ccgtcttcggacccctttggattcttcaagccagtttgcttaaagtaccctactttgtgc	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	ĠĊĠŦĊĊĀĀĠĠĊĊŦŦĊŦĊĊĠĠŦŦĊŦĠĊĠĊĠŦŦĀĠĊĠĊĠĠĀĀĠĀŦĠĀŦĊ~ĠĠĀĠĠĊĊĀŦŦĀĊ	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	gtgcaaatggtcatcattaagttaggggcgcttactggcacctatgtttataaccatctc	3178
Query	3201	ACCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	ĠŤĊĠŤĊŤŤĊŤĊĊĊAĂAŤĠĠĀĠĀĊĊĀĀĠĊŤĊĀŤĊĀĊĠŤĠĠĠĠĠĠĠĀĠĀŤĀĊĊĠĊĊĠĊĠŤĠĊ	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	ĠĠŦĠĂĊĂŤĊĂŤĊĂĂĊĠĠĊŤŦĠĊĊŦĠŤŦŤĊĊĠĊĊĠĊĂĠĠĠĠĊĊĠĠĠĂĠĂŤĂĊŦĠĊŤĊĠĠĠ	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC  TCCTCTCCACCACCACCACCCCCACACCTTCCACCTCCCACCCCCC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC  AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct			4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4100

Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	tccacctacggcaagttccttgccgacggcggtgctcgggggggg	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTĠTĠAĊĠAĠTĠĊĊAĊŦĊĊAĊĠĠATĠĊĊAĊATĊĊŦŢĠĠĠĊAŢĊĠĠĊAĊŢĠŢĊĊŢŢ	4318
Query	4341	GACCAAGCAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	ĠĂĊĊĂĂĠĊĂĠĂĠĂĊŤĠĊĠĠĠĠĠĊĠĂĠĂĊŤĠĠŤŤĠŤĠĊŤĊĠĊĊĂĊĊĠĊĊĂĊĊĊĊŤĊĊĠĠĠĊ	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641 4619	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700 4678
Sbjct	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Query Sbjct	4679	ISCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739		4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGAC	4880
Sbjct	4799		4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859		4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	tcccagacaaagcagagtggggagaaccttccttacctggtagcgtaccaagccaccgtg	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	tĠĊĠĊŦĠĠĠĠĊŦĊAAĠĊĊĊĊŦĊĊĊĊAŦĊĠŦĠĠĠAĊĊĀĠAŦĠŦĠĠAAĠŦĠŦŦŦĠĀŦŦĊĠĊ	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	ĊŢĊŔŔĠĊĊŔĊĊĊŢĊĊŔŢĠĠĠĊĊŔŔĊŔĊĊĊŢĠĊŢŔŢŔĊŔĠŔĊŢĠĠĊĠĊŢĠŢŢĊŔĠŔŔŢ	5218
Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300

Sbjct	5219	GAAATCACCCTGACGCACCCAGTCACCAAATACATCATGACATGCATG	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TĠĊĊŢĠŢĊĂĂĊĂĠĠĊŢĠĊĠŢĠĠŢĊĀŢĀĠŢĠĠĠĊĀĠĠĠŢĊĠŢĊŢŢĠŢĊĊĠĠĠĀĀĠĊĊĠĠĊĀ	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ÁTCÁTÁCCTGÁCÁGGGÁAGTCCTCTÁCCGÁG–ÁGTTCGÁTGÁGÁTGGÁÁGÁGTGCTCTCÁ	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCTCCCGTCAGGCAGAGGTTATCGCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAACTTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATGATGGCTTT	5697
Query Sbjct	5720 5698	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779 5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGCTGCCCAGCTCGCCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818		5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878		5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	ĠĊĀĠŦĠĠĀŦĠĀĀĊĊĠĠĊŦĠĀŦĀĠĊĊŦŤĊĠĊĊŦĊĊĊĠĠĠĠĠĀĀĊĊĀŦĠŦŦŦĊĊĊĊĀĊĠĊĀ	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	ĊŦĀĊĠŦĠĊĊĠĠĀĠĀĠĊĠĀŦĠĊĀĠĊŦĠĊĊĊĠĊĠŦĊĀĊŦĠĊĊĀŦĀĊŦĊĀĠĊĀĠĊĊŦĊĀĊŦĠŦ	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438

Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	ctgagatcactggacatgtcaaaaacgggacgatgaggatcgtcggtcctaggacctgca	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	ggaacatgtggagtgggaccttccccattaatgcctacaccacgggcccctgtacccccc	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	ticctgcgccgaactacacgttcgcgctatggagggtgtctgcagaggaatatgtggaga	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	ccgtgccaggtccatcgcccgaattttcacagaattggacggggtgcgcctacatagg	6715
Query	6738	TTTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbjct	6716	titgcgcccccctgcaagcccttgctgcgggaggaggtatcattcagagtaggactccac	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	ĠAAŤAĊĊĊĠĠŤAĠĠĠŤĊĠĊĀAŤŤAĊĊŤŤĠĊĠĀĠĊĊĊĠĀĀĊĊĠĠĀĊĠŤĠĠĊĊĠŤĠŤŤĠĀĊĠ	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	tccatgctcactgatccctcccatataacagcagaggcggccgggcgaaggttggcgag-	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCCAA	6976
Sbjct	6895	ġġĠatċaċċċċċċtċtġtġġċċaġċtċċtċġġċtaġċċaġċtatċċġċtċċatċtċtċaa	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	ġĠĊāaĊŦŦĠĊāĊĊĠĊŦāāĊĊāŦĠāĊŦĊĊĊĊŦĠāŦĠĊŦĠāĠĊŦĊāŦāĠāĠĠĊĊāāĊĊŦĊĊŦ	7014
Query	7037	GTGGAGGCAGGATGGGCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	atggaggcaggagatgggcggcaacatcaccagggttgagtcagaaaacaaagtggtgat	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	tötága ctócttóga töcégéttétégégégágágágágágágágágágágátótóc gta codo	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	agaaatcctgcggaagtctcggagattcgcccaggccctgcccgtttgggcgcggccgga	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	ĊŢŖŢŖŖŢŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖŖ	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TĠĠĊŦĠŦĊĊĠĊŦŦĊĊĂĊĊŦĊĊĀAAĠŦĊĊĊĊŦĊĊŦĠŦĠĊĊŦĊĊĠĊĊŦĊĠĠĀĀĠĀĠĠĠĠĀĊ	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	ggtggtcctcactgaatcaaccctatctactgccttggccgagctcgccaccagaagctt	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTTCCATGccccccTGGA	7516
Sbjct	7435	cccttctgcctgccccccgactccgacgctgagtcctattcctccatgcccccctgga	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGC	7576

Sbjct	7495	GGGGGAGCCTGGGGATCCTTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555		7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615		7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	AĠĊAĠĊĠĠĊĠŦĊAAAAĠŦĠAAĠĠĊŦAAĊŦŦĠĊŦAŦĊĊĠŦAĠAĠĠAAĠĊŦŦĠĊAĠĊĊŦĠAĊ	7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	ĠĊĊĊĊĠĊĠĊĊĊĠĠĊĊĠĠĊĊĠĠĠĊĠĠĠĊĠĠĊĠĠĊĠĠĊĠĠĊ	7914
Query	7937	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATGGGAAGCTCCTACG GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8153 8235
Query Sbjct	8176 8154	GATICCAATACICACCAGGACAGCGGGIIGAATICCICGIGCAAGCGIGGAAGICCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214		8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274		8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334		8393
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394		8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	8454		8513
Query	8536	CCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	8514		8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGcccacacagggg	8655
Sbjct	8574		8633
Query	8656	acceecaCAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715

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8634
        ACCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGTCAG
                                                   8693
Sbjct
    8716
        TCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC
                                                   8775
Query
        8694
                                                   8753
Sbjct
        TCGCGAGAGCCGCGTGGGAGACACCACACACTCCAGTCAATTCCTGGCTAGGCAACA
    8776
                                                   8835
Query
         8754
        ŤĊĠĊĠŔĠŔĠĊŢĠĊĠŢĠĠĠŔĠŔĊŔĠĊŔŔĠŔĊŔĊĬĊĊŔĠŢĊŔŔŢŤĊĊŢĠĠĊŢŔĠĠĊŔŔĊŔ
Sbjct
                                                   8813
    8836
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                                                   8933
Sbjct
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    8956
                                                   9015
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Sbjct
                                                   9075
Query
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                                                   9053
Sbjct
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        9054
                                                   9113
Sbjct
        9136
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Sbjct
    9196
        9255
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    9174
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                                                   9315
         CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCCGCTGGA
    9234
                                                   9293
Sbjct
    9316
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                                                   9375
Query
        9294
                                                   9353
Sbjct
    9376
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                            9401
Query
        9354
Sbjct
                            9379
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Score = 1.516e+04 bits (8209), Expect = 0.0 Identities = 8996/9386 (95%), Gaps = 14/9386 (0%)
Strand=Plus/Plus
Query
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                                                   82
        60
Sbjct
    1
        \verb|CCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAcccccccCCGGGAGAGCCATA| \\
    83
                                                   142
Query
        120
Sbjct
    61
        GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA
Query
    143
         Sbjct
    121
        GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA
                                                   180
         TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT
Query
    203
                                                   262
        181
                                                   240
Sbjct
    263
        GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG
                                                   322
Query
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Ch dat	2.41		300
Sbjct	241	GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAACTCAAAAAAAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG	562
Sbjct	481	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCTCGTCGGCCCGAGGGCAG	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGCTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	gggatggctcctgtctcccgtggctctcggcctagctgggcccacagacccccggcg	660
Query	683	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTTGCTTGACTGTGCCCGCTTCGGCCTACCAAGT	900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCACCCTGCACACTCCGGGGTGCGTCCCTTGCGTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGC	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141		1200
Query	1223	TCCCAGGCGCCACTGGACGCAAGACTGCAATTGTTCTATCTA	1282
Sbjct	1201		1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261		1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321		1380
Query	1403	AGTCCTGGCGGCCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462

Sbjct	1381	AGTCCTGGCGGCCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	ĠĊŦĠĊŦĠĊŦĂŦŦŦĠĊĊĠĠĊĠŦĊĠĂĊĠĊĠĠĂĂĂĊĊĊĂĊĠŦĊĂĊĊĠĠĠĠĂĂĠŦĠĊĊĠĠĊĊA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT	1582
Sbjct	1501	ĊĂĊŦĠŦĠŦĊŦĠĠAŦŦŦĠŦŦAĠĊĊŦĊĊŦĊĠĊĂĊĊĀĠĠĊĠĊĊĀĀĠĊĀĠĀĀĊĠŦĊĊĀĠĊŦĠĀŦ	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CÁACACCÁACGGCÁGTTGGCÁCCTCÁATAGCÁCGGCCCTGAACTGCÁATGÁTÁGCCTCÁA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	ĊĂĊĊĠĠĊŤĠĠŤŤĠĠĊĂĠĠĠĊŤŦŤĊŤĂŤĊĂĊĊĂĊĂĂĠŤŤĊĂĂĊŤĊŤŤĊĂĠĠĊŤĠŤĊĊŤĠĂ	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	ĠĀĠĠĊŤĀĠĊĊĀĠĊŤĠĊĊĠĀĊĊĊŤŤĀĊĊĠĀŤŤŤŤĠĀĊĊĀĠĠĠĊŤĠĠĠĠĊĊĊŤĀŤĊĀĠŤŤĀ	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	ŤĠĊĊŔĂĊĠĠŔŔĠĊĠĠĊĊĊĠŔĊĊŔĠĊĠĊĊĊŤŔĊŤĠĊŤĠĠĊŔĊŤŔĊĊĊĊĊŔŔĸŔĊĊŤŤĠ	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCGAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCACCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCCTTAACACACCCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACACCCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCGTGTTCCTTCACAACCCTACCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTCTGCTTGCAGACGCGCGCG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTGCTGCAGACGCGCGCG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602

Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	rgcarggraftrigaagggraagregeteccegageggretacaeerretaegggargre	2700
Query	2723	GCCTCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	gcctctcctcctgctcctgttggcgttgcccagcgggcgtacgcgctggacacggaggt	2760
Query	2783	GGCCGCGTCGTGGCCGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	ĠĠĊĊĠĊĠŤĊĠŤĠŤĠĠĊĠĠŦĠŤŤĠŤŤĊŤĊĠŤĊĠĠĠŤŤĠĂŤĠĠĊĠĊŤĠĂĊŤĊŤĠŤĊĀĊĊĀŤĀ	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	ttacaagcgctatatcagctggtgcttgtggtggcttcagtattttctgaccagagtgga	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTeecccctCAACGTCCggggggggCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCCCTCAACGTCCGAGGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	2941	ĊŢŢŖĊŢĊŖŢĠŢĠŢĠĊŢĠŢŖĊŢĊŢĠĠŢŖŢŢŢĠŖĊŖŢĊŖĊŢĠĊŢĠĠ	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	ccgtcttcggacccctttggattcttcaagccagtttgcttaaagtaccctactttgtgc	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	ĠĊĠŦĊĊĂĀĠĠĊĊŦŦĊŦĊĊĠĠŦŦĊŦĠĊĠĊĠŦŦĀĠĊĠĊĠĠĀĀĠĀŦĠĀŦĊ~ĠĠĀĠĠĊĊĀŦŦĀĊ	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATTAAGTTAGGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	actcctcttcgggactgggcacaacggcttgcgagatctggccgtggctgtagagcca	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	ggtgacatcatcaacggcttgcctgtttccgcccgcaggggccgggagatactgctcggg	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCATCACGGCGTACGCC	3440
Sbjct	3359	ccagccgarggaarggretecaaggggregaggregecgcccarcacggcgracgcc	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740

Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	AcGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	tcctctccaccagtagtgccccagagcttccaggtggctcacctccatgctccacaggc	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	agcggcaaaagcaccaaggtcccggctgcatatgcagctcagggctataaggtgctagta	4078
Query	4101	CTCAACCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	ctcaacccctctgttgctgcaacactgggctttggtgcttacatgtccaaggctcatggg	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	atcgatcctaacatcaggaccggggtgagaacaattaccactggcagccccatcacgtac	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGGGGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	tccacctacggcaagttccttgccgacggcggtgctcgggggggcgcttatgacataata	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	atttgtgacgagtgccactccacggatgccacatccatcttgggcatcggcactgtcctt	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	ĠĂĊĊĂĂĠĊĂĠĂĠĂĊŤĠĊĠĠĠĠĠĊĠĂĠĂĊŤĠĠŤŤĠŤĠĊŤĊĠĊĊĂĊĊĠĊĊĂĊĊĊŤĊĊĠĠĠĊ	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCATCCCGACCAGCGGCGATGTTGTC	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGGG	4880

Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGAC	4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
Sbjct	5219	GAAATCACCCTGACGCCCCCCCCCCCCCCCCCCCCCCCC	5278
Query	5301 5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGCGTCTTGGCCGCGTAT	5360 5338
Sbjct	5361	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTTTGGCCGCGTAT  TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Query Sbjct	5339		5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399		5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458		5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578	ctggcaaaaactcgagaccttctgggcgaagcatatgtggaacttcatcagtgggataca	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	atacttgccggcttgtcaacgctgcctggtaaccccgccattgcttcattgatgcttt	5697
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TÁCAGCTGCTGTCÁCCAGCCCÁCTAACCACTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	ĊŦŦŔĠĊŦĠĠĊĠĊĊĠĊĊŔŦĊĠĠĊŔĠŦĠŦŦĠĠŔĊŦĠĠĠĠŔŔĠĠŦĊĊŦĊŔŦŔĠŔĊŔŦĊĊŦŦĠĊ	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019

Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998		6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058		6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118		6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	cggttcctggctaagggacatctggactggatatgcgaggtgttgagcgactttaagac	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	ctggctaaaagctaagctcatgccacagctgcctgggatcccctttgtgtctgccagcg	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	ĊĠĠĠŤŔŤŔĸĠĠĠĠĠŤĊŤĠĠĊĠŔĠŦĠ~ĠŔĊĠĠĊŔŤĊŔŤĠĊŔĊŔĊŤĠĊĊŔĊŤĠŤĠĠŔĠ	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6655
Query	6678 6656	CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737 6715
Sbjct Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbict	6716		6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776		6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836		6894
Query	6918	GGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895		6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955		7014
Query	7037	GTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015		7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156

Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	ctataaccccccccctagtggagacgtggaaaaagcccgactacgaaccacctgtggtcca	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TĠĠĊŢĠŢĊĊĠĊŢŢĊĊĠĊĊŢĊĊĠAAAĠŢĊĊĊĊŢĊĊŢĠŢĠĊĊŢĊĊĠĊĊŢĊĠĠĀĀĠĀĠĠĠĠĀĊ	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGddddddGACTCCGACGTTGAGTCCTATTCTTCCATGddddddTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCTATTCCTCCATGCCCCCCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTCCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614
Query	7637 7615	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696 7674
Sbjct	7613	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAGT	7756
Query Sbjct	7675		7734
Query	7757	CACATTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735		7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795		7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855		7914
Query	7937	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915		7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	gatggctttgtacgacgtggtta-caaagctccccttggccgtgatgggaagctcctacg	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	ĠATTĊĊĀATĀĊĪĊĀĊĊĀĠĠĀĊĀĠĊĠĠĠŢŢĠĀĀŢŢĊĊŢĊĠŢĠĊĀĀĠĊĠŢĠĠĀĀĠŢĊĊĀĀĠĀ	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295

Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274		8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334		8393
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	8454	ccctcacttgctacatcaaggcccgggcagcctgtcgagccgcagggctccaggactgca	8513
Query	8536	CCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	8514	ccatgctcgtgtgtgcgacgacttagtcgttatctgtgaaagcgcgggggtccaggagg	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGGGGGGGG	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG	8633
Query	8656	acceecaCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
Sbjct	8634	ACCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGTCAG	8693
Query	8716	TCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8775
Sbjct	8694	TCGCCCACGACGCCTGGAAAGAGGGTCTACTACCTCACCCGTGACCCCTACAACCCCCC	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACA	8835
Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8873
Query	8896 8874	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCT	8955 8933
Sbjct Query	8956	ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC	9075
Sbjct	8994		9053
Query	9076	TTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9135
Sbjct	9054		9113
Query	9136	TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9195
Sbjct	9114		9173
Query	9196	CAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTT	9255
Sbjct	9174		9233
Query	9256	CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCCGCTGGT	9315
Sbjct	9234		9293
Query	9316	TCTGGTTTTGCCTACTCCTGCTGCAGGGGTAGGCATCTACCTCCTCCCAACCGAT	9375
Sbjct	9294		9353
Query	9376	GAAGGTTGGGGTAAACACTCCGGCCT 9401	

Sbjct 9354 GAAGGTTGGGGTAAACACTCCGGCCT 9379 >gb|AR166930.1|AR166930 Sequence 1 from patent US 6284249 Length=9379 Score = 1.516e+04 bits (8209), Expect = 0.0 Identities = 8996/9386 (95%), Gaps = 14/9386 (0%) Strand=Plus/Plus CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG 23 Query 1 60 Sbjct Query 83 142 120 Sbjct 61 GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA Query 143 202 GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA 121 180 Sbjct TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT Query 203 262 Sbjct 181 240 GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG Query 263 322 Sbjct 241 300 323 GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA 382 Query Sbjct 301 360 383 CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT 442 Query CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT Sbjct 361 420 Query 443 TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA 502 TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGACGAGAAAGACTTCCGA 480 421 Sbjct 503 GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG 562 Query 481 540 Sbjct 563 GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC 622 Query Sbjct 541 600 GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG 682 Query 623 601 660 Sbjct 683 TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT 742 Query 661 720 Sbjct Query 743 GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG 802 721 780 Sbjct 803 CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT 862 Query ĊĠŤĊĊĠĠĠŤŤĊŤĠĠĂĠĠĊĠĠĠĠĠĠĠĠĂĠĊŤĂŤĠĊĂĠĊĠĠĠĂĂĊĊŤŤĊĊŤĠĠŤŤĠĊŤĊŤŤŤ 781 840 Sbjct CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT Query 863 CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCTTGACTGTGCCCGCTTCGGCCTACCAAGT Sbjct 841 900 GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA 982 Query 923 901 960 Sbjct 983 CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA 1042 Query 

Sbjct	961	CGAGGCCGATGCCATCCTGCACACTCCGGGGTGCGTCCCTTGCGTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	1021	ĊĠĊĊŦĊĠĀĠĠŦĠŦŦĠĠĠŦĠĠĊĠĀŦĠĀĊĊĊĊŦĀĊĠĠŦĠĠĊĊĀĊĊĀĠĠĠĀŦĠĠĊĀĀĀĊŦĊĊĊ	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	ĊĠĊĠŔĊĠĊŔĠĊŤŤĊĠŔĊĠŤĊŔĊŔŤĊĠŔŤĊŤĠĊŤŤĠŤĊĠĠĠŔĠĊĠĊĊŔĊĊĊŤĊŤĠŦŤĊĠĠĊ	1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACTGTTCACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTCTGCCGGCCATATAAC	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGCAAGGTTGCAATTGCTCTATCTA	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGCCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT	1582
Sbjct	1501	CACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG	1800 1882
Query	1823 1801	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Sbjct	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Query Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Query	1943	GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1943	GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2002
Query	2063	GGGCAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2003	GGGCAACACCCTIGCTCTGCCCCACTGATTGCTTCCGCAACATCCGGAAGCCACATA	2122
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
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Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	ggaagacagggacaggtccgagctcagcccgttactgctgaccactacacagtggcaggt	2340
Query	2363	CCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	CCTCCCGTGTTCCTTCACAACCCTACCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTCTGCTTGCAGACGCGCGCG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTGCTGCAGACGCGCGCG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTCACCATA	2820 2902
Query	2843 2821	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2880
Sbjct Query	2903	AGCGCAACTGCACGTGTGGGTTcoccccCTCAACGTCCqqqqqqqGCGCGATGCCGTCAT	2962
Sbict	2881	AGCGCAACTGCACGTGGGATTCCCCCCCTCAACGTCCGAGGGGGGGG	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbict	2941		2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000		3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060		3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119		3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179		3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320

Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCAACGGCTTGCCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	caagrggagggrgaggrccagarrgrgrcaacrgcccaaaccrrccrggcaacgrgc	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	atcaatggggtgtgctgctgctaccacggggccggaacgaggaccatcgcgtcaccc	3598
Query	3621	AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCTGGCCCGCT	3680
Sbjct	3599	aagggtcctgtcatccagatgtataccaatgtagaccaagaccttgtgggctggcccgct	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	ccgcaaggtagccgctcattgacaccctgcacttgcgctcctcggacctttacctggtc	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGTGCTCGGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACCACCCCCCCC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460

Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	gccgrggcctactaccgcgctctrgacgrgtccgrcatcccgaccagcggcgargrtgtc	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	gtcgtgcaaccgatgccctcatgaccggctataccggcgacttcgactcggtgatagac	4678
Query	4701	TGCAACACGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	rgcaaracgrgrgrcacccagacagrcgarrrcagccrrgacccraccrrcaccarrgag	4738
Query	4761	ACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	acaatcacectccccaeeatectctcccccactcaacetceeeecaetecee	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGGG	4880
Sbjct	4799	ĠĠĠaaĠĊĊāĠĠĊāŤĊŤāĊāĠāŤŤŤĠŤĠĠĊāĊĊĠĠĠĠĠĠĠĊĠĊĊĊĊŤĊĊĠĠĊāŤĠŤŤĊĠāĊ	4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	t c d t c d t c t c t d t d d d d d d d	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	ĠĀĠĀĊŦĀĊĀĠŦŦĀĠĠĊŦĀĊĠĀĠĊĠŦĀĊĀŦĠĀĀĊĀĊĊĊĠĠĠĠĊŦŦĊĊĊĠŦĠŦĠĊĊĀĠĠĀĊ	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4979	ĊĂŢĊŢŢĠĂĀŢŢŢŢĠĠĠĀĠĠĠĊĠŢĊŢŢŢĀĊĀĠĠĊĊŢĊĀĊŢĊĀŢĀŢĀĠĀŢĠĊĊĊĀĊŢŢŢĊŢĀ	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
Sbjct	5219	GAAATCACCCTGACGCACCCAGTCACCAAATACATCATGACATGCATG	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGCTCTTGGCCTGCTCTTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGCGTCCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599

Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578	ctggcaaaaactcgagaccttctgggcgaagcatatgtggaacttcatcagtgggataca	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5697
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	ŤĂĊĂĠĊŤĠĊŢĠŤĊĂĊĊĂĠĊĊĊĂĊŤĂĂĊĊĂĊŤAĠĊĊĂĂĂĊĊĊŤĊĊŤĊŤŤĊĂĂĊĂŤĂŤŤĠĠĠ	5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020 5998	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079 6057
Sbjct Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058		6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118		6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178		6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238		6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	ĊĠĠĠŦĸŦĸĸĠĠĠĠĠŦĊŦĠĠĊĠĸĠŦĠ~ĠĸĊĠĠĊĸŦĊĸŦĠĊĸĊĸĊŦĠŦĠĠĸĠ	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	ĊŢĠĠĠĠŢĊĠĊŢĠĠĠĊĠŢĠĊĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠ	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	ĠĠĂĂĊĂŤĠŤĠĠĂĠŤĠĠĠĂĊĊŤŤĊĊĊĊĂŤŤĂĂŦĠĊĊŤĂĊĂĊĊĂĊĠĠĠĊĊĊĊŤĠŤĂĊĊĊĊĊĊ	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	ŤŤĊĊŤĠĊĠĊĊĠĂĂĊŤĀĊĀĊĠŤŤĊĠĊĠĊŤAŤĠĠĀĠĠŤĠŤĊŤĠĊĀĠĀĠĠĀÁŤĀŤĠŤĠĠĀĠĀ	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737

Sbjct	6656	CCGTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbjct	6716	tttgcgcccccctgcaagcccttgctgcgggaggaggtatcattcagagtaggactccac	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	ĠAATAĊĊĊĠĠŦAĠĠĠŦĊĠĊAAŦŦAĊĊŦŦĠĊĠĀĠĊĊĊĠĀAĊĊĠĠĀĊĠŦĠĠĊĊĠŦĠŦŦĠĀĊĠ	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	ŤĊĊĂŤĠĊŤĊĂĊŤĠĂŤĊĊĊŤĊĊĊĂŤĂŤĂĂĊĂĠĊĀĠĂĠĠĊĠĠĠĊĊĠĠĠĊ	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	ĠĠĠAŤĊĂĊĊĊĊĊĊŤĊŤĠŤĠĠĊĊĂĠĊŤĊĊŤĊĠĠĊŤĂĠĊĊĂĠĊŤAŤĊĊĠĊŤĊĊĂŤĊŤĊŤĊĂĀ	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337 7315	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396 7374
Sbjct	7313	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Query Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTTCCATGccccccTGGA	7516
Sbict	7435		7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbict	7495		7554
Query	7577	CGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555		7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615		7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675		7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735		7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876

Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855		7914
Query	7937	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	accaatagacactaccatcatggctaagaacgaggttttctgcgttcagcctgagaaggg	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	ĠĠĠŤĊĠŤĂĂĠĊĊĂĠĊŤĊĠŤĊŤĊĂŤĊĠŤĠŤŤĊĊĊĊĠĂŤĊŤĠĠĠĊĠŤĠĊĠĊĠŤĠŤĠĊĠĂAĂĀ	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGGCTATCGCAGGTGCCGCGCGCGGGGGGGGTACTGACAACTAGCTGTGGTAACA	8453 8535
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	
Sbjct	8454 8536	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8513 8595
Query Sbjct	8514	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGccccccccqqqq	8655
Sbjct	8574		8633
Query	8656	acccccACACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
Sbjct	8634		8693
Query	8716	TCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8775
Sbjct	8694		8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACA	8835
Sbjct	8754		8813
Query	8836	TAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814		8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874		8933
Query	8956	ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015

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8934
         ACTCCATAGAACCACTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT
                                                     8993
Sbjct
     9016
         TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC
                                                     9075
Query
         8994
                                                     9053
Sbjct
         TTGGGGTCCCGCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC
                                                     9135
     9076
Query
         TTGGGGTACCGCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC
Sbjct
     9054
                                                     9113
     9136
         TGTCCAGAGGAGGCAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA
                                                     9195
Query
         9114
                                                     9173
Sbjct
         Query
     9196
                                                     9255
         9174
         CAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTCCGGCTGGTTCA
                                                     9233
Sbjct
         CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCCGCTGGT
     9256
                                                     9315
Query
         CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCCGCTGGA
     9234
                                                     9293
Sbjct
         TCTGGTTTTGCCTACTCCTGCTGCAGGGGTAGGCATCTACCTCCTCCCCAACCGAT
Query
     9316
                                                     9375
         9294
                                                     9353
Sbjct
                             9401
Query
     9376
         GAAGGTTGGGGTAAACACTCCGGCCT
         Sbjct
     9354
                             9379
            COMBINATIONS OF HEPATITIS C VIRUS (HCV) ANTIGENS FOR USE IN IMMUNOASSAYS
>dbj|DI039725.1|
FOR ANTI-HCV ANTIBODIES
Length=9401
Score = 1.514e+04 bits (8199), Expect = 0.0 Identities = 9000/9408 (95%), Gaps = 14/9408 (0%)
Strand=Plus/Plus
         GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
Query
         Sbjct
         GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
                                                     60
Query
     61
         120
         120
Sbjct
     61
         eecceTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
     121
                                                     180
Query
     121
         CCCCCTCCCGGGAGACCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
                                                     180
Sbjct
     181
         GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC
                                                     240
Query
         Sbjct
     181
                                                     240
Query
     241
         GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
                                                     300
         241
         GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
                                                     300
Sbjct
     301
         GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
                                                     360
Query
         301
         GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
Sbjct
                                                     360
Query
     361
         CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
                                                     420
         Sbjct
     361
                                                     420
         GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
     421
                                                     480
Query
         GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
     421
                                                     480
Sbjct
     481
         GCGCGACGAGGAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA
                                                     540
Query
         Sbjct
     481
                                                     540
         AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG
Query
     541
                                                     600
```

Sbjct	541	AGGCTCGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGCTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Query	661	GGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	GGGGCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Query	781	CTGCCAGGGCCCTGGCGATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	ctgccagggccctggcgcatggcgtccgggttctggaagacggcgtgaactatgcaacag	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	ggaaccttcctggttgctctttctctaycttccttctggccctgctctttgcttgactg	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TĠĊĊĊĠĊŦŦĊĠĠĊĊŦĂĊĊĂĂĠŦĠĊĠĊĂĂĊŦĊĊĂĊĠĠĠĠĊŦŦŦĂĊĊĂĊĠŦĊĂĊĊĂĂŦĠĂŦŦ	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTG	1020
Sbjct	961	GCCCTÄÄCTCGÄĞTÄTTĞTĞTÄCGÄĞGCĞĞCCĞÄTĞCCÄTCCTĞCÄCÄCTCCĞĞĞĞTĞCĞ	1020
Query	1021	TCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGG	1080
Sbjct	1021	TCCCTTGCGTTCGTGAGGGCAACGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGG	1080
Query	1081	CCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCG	1140
Sbjct	1081	CCACCAGGGATGGCAAACTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCG	1140
Query	1141	GGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1200
Sbjct	1141	GGAGCGCCACCCTCTGTTCGGCCCTCTACGTGGGGGACCTATGCGGGTCTGTCT	1200
Query	1201	TTGGTCAACTGTTTACCTTCTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT	1260
Sbjct	1201	TCGGCCAACTGTTCACCTTCTCCCAGGCGCCACTGGACGACGCAAGGTTGCAATTGCT	1260
Query	1261	CTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGGT	1320
Sbjct	1261	CTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGGGATATGATGATGAACTGGT	1320
Query	1321	CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA	1380
Sbjct	1321	CCCCTACGACGGCGTTGGTARTGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACA	1380
Query	1381 1381	TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA	1440
Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1440 1500
Query Sbjct	1441	ACTGGGCGAAGGTCCTGGTAGTGCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACG	1500
Query	1501	TCACCGGGGAAATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCG	1560
Sbjct	1501		1560
Query	1561	CCAAGCAGAACATCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCT	1620
Sbjct	1561	CCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCC	1620
Query	1621	TGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAAT	1680
Sbjct	1621	TGAACTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGT	1680
Query	1681	TCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCC	1740
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Sbjct	1681		1740
Query	1741	AGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCT	1800
Sbjct	1741		1800
Query	1801	GGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTAT	1860
Sbjct	1801		1860
Query	1861	ATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1920
Sbjct	1861		1920
Query	1921	ACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGG	1980
Sbjct	1921	ACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGG	1980
Query	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Sbjct	1981	GCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGC	2040
Query	2041	CCCCTTGTGTCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCC	2100
Sbjct	2041	CTCCTTGTGTCATCGGAGGGCGGGCAACACACCCTGCACTGCCCCACTGATTGCTTCC	2100
Query	2101	GCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGT	2160
Sbjct	2101	ĠĊŔĸĠĊŔŢĊĊĠĠŔĊĠĊĊŔĊŔŢŔĊŢĊĠĠŢĠĊĠĠĊŢĊĊĠĠŢĊĊĊŢĠĠMŢĊŔĊŔĊĊŔĠĠŢ	2160
Query	2161	GCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATAT	2220
Sbjct	2161	ĠĊĊŢĠĠŢĊĠĂĊŢĂĊĊĊĠŢĂŢĂĠĠĊŢŢŢĠĠĊĂŢŢĂŢĊĊŢŢĠŢĂĊĊĂŢĊĂĂĊŢĀĊĀĊĀŢĀŢ	2220
Query	2221	TCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGA	2280
Sbjct	2221	TTAAAATCAGGATGTACGTGGGAGGGTCGAACACAGGCTGGAAGCTGCCTGC	2280
Query	2281	CGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGC	2340
Sbjct	2281	CGCGGGGCGAACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGC	2340
Query	2341	TGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCA	2400
Sbjct	2341	TGACCACTACACAGTGGCAGGTCCTCCCGTGTTCCTTCACAACCCTACCAGCCTTGTCCA	2400
Query	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGT	2460
Sbjct	2401	CCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGT	2460
Query	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTG	2520
Sbjct	2461	CAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTG	2520
Query	2521	CAGACGCGCGCGTCTGCTCCTGCTTGTGGATGTTACTCATATCCCAAGCGGAGGCGG	2580
Sbjct	2521	CAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGG	2580
Query	2581	CTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGT	2640
Sbjct	2581	CTTTGGAGAACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTAT	2640
Query	2641	CCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2700
Sbjct	2641	CCTTCCTCGTGTTCTTCTGCTTTGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGG	2700
Query	2701	TCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCTGCTGCCTCAGCGGG	2760
Sbjct	2701	TCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGG	2760
Query	2761	CATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTGTTCTTGTCGGGTTAA	2820
Sbjct	2761	CGTACGCGCTGACTCTCCGCATATTACAACCCCTATATACACCTCCATCCCTCCC	2820
Query	2821	TGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTC	2880

Sbjct	2821		2880
Query	2881	AGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGCGCGGGTCAACGTCC	2940
Sbjct	2881		2940
Query	2941	agggaaaCGCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTT	2999
Sbjct	2941		2999
Query	3000	GACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTG	3059
Sbjct	3000		3059
Query	3060	CTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGG	3119
Sbjct	3060		3119
Query	3120	AAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3120		3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTTTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGC	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCGGGAGATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419	GGCGCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAG	3478
Query Sbjct	3479 3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538 3538
Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539		3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599		3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659		3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719		3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779		3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	ccgtggagtggctaaggcggtggactttatccctgtggagaacctagagacaaccatgag	3958
Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018

Sbjct	3959	GTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	TCACCTCCATGCTCCCACAGGCAGCGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	TCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGC	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCTCATGGGATCGATCYTAACATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Query	4259	AGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	ggggggcgcttatgacataataatttgtgacgagtgccactccacggatgccacatccat	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319	CTTGGKCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	cgccaccgccacccctccggctccgtcactgtgccccatcccaacatcgaggaggttgc	4438
Query	4439	TCTGTCCACCGCGGAGAGTCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	TCTGTCCACCACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAA	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	ĠĠĠĠĠĠĠĠĠĠĠĠĊĠĊĊĊĊĊĊĊĊĠĊĠĊĠĊĠĊĠĊĠĊĠĊĠĊĠĊ	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4618
Sbjct	4559	ĠĊŢĠĠŢĊĠĊĂŢŢĠĠĊĂŢĊĂĂŢĠĊĊĠŢĠĠĊĊŢĂĊŢĂĊĊĠĊĠĠŢĊŢŢĠĂĊĠŢĠŢĊĊĠŢĊĂŢ	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTCGGTGATAGACTRCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTCASCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGTCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	ĠĠĠĠĊŤŤĊĊĊĠŤĠŤĠĊĊĂĠĠĂĊĊĂŤĊŤŤĠĂĂŤŤŤŤĠĠĠĂĠĠĊĠŤĊŤŤŤĂĊAĠĠĊĊŤĊĂĊ	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	ŤĊĂŦĂŦĂĠĂŦĠĊĊĊĂĊŦŤŦĊŦĂŦĊĊĊĀĠĂĊĂĂĀĠĊĀĠĀĠŦĠĠĠĠĀĠĀĀĊĊŦŤĊĊŦŦĂĊĊŦ	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158

Sbjct	5099		5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159		5218
Query	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219		5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279		5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCG	5457
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATCATACCTGACAGGGAAGTCCTCTACCGAG-AGTTCG	5457
Query	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTG	5517
Sbjct	5458	ATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCG	5517
Query	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTA	5577
Sbjct	5518	AGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTA	5577
Query	5578	TCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGT	5637
Sbjct	5578	TCGCCCCTGCTGTCCAGACCAACTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGT	5637
Query	5638	GGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCG	5697
Sbjct	5638	ggaacticatcagtgggatacaatacttggcgggcttgtcaacgctgcctggtaaccccg	5697
Query	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAA	5757
Sbjct	5698	CCATTGCTTCATTGATGGCTTTTACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAA	5757
Query	5758	CCCTCCTCTCAACATATTggggggGTGGGTGGCCCAGCTCGCCGCCCCCGGTGCCG	5817
Sbjct	5758	ccctctcttcaacatattgggggggtggctgcccagctcgcccccggtgccg	5817
Query	5818	CTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGA	5877
Sbjct	5818	ĊŦĂĊŦĠĊĊŦŦŦĠŦĠĠĠĊĠĊŦĠĠĊŦŦĂĠĊŦĠĠĊĠĊĊĠĊĊĂŦĊĠĠĊĂĠŦĠŦŦĠĠĂĊŦĠĠĠĠĀ	5877
Query	5878	AGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCAT	5937
Sbjct	5878	AGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCAT	5937
Query	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCA	5997
Sbjct	5938	TCAAGATCATGAGCGGTGAGGTCCCCTCCACGGRGGACCTGGTCAATCTACTGCCCGCCA	5997
Query	5998	TCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACG	6057
Sbjct	5998	TCCTCTCGCCCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACG	6057
Query	6058	TTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGG	6117
Sbjct	6058	TTGGCCCGGGCGAGGGGCAGTGCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGG	6117
Query	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6177
Sbjct	6118	GGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTG	6177
Query	6178	CCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCT	6237
Sbjct	6178	CCATACWCWGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCT	6237
Query	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297

Sbjct	6238	CGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCG	6297
Query	6298	AGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGA	6357
Sbjct	6298	AGGTGTTGAGCCACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGA	6357
Query	6358	TTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATG	6416
Sbjct	6358	TCCCCTTTGTGTCCTGCCAGCGCGGGTATAAGGGGGGTCTGGCGAGKG-GACGGCATCATG	6416
Query	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Sbjct	6417	CACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGG	6476
Query	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTAC	6536
Sbjct	6477	ATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTAC	6536
Query	6537	ACCACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTG	6596
Sbjct	6537	ACCACGGGCCCCTGTACCCCCCTTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTG	6596
Query	6597	TCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGT-ATCGGGTAT	6655
Sbjct	6597	tctgcagaggaatatgtggagataaggcaggtgggggacttccactacgtga-cgggtat	6655
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6656	GACTACTGACAATCTCAAATGCCCGTGCCAGGTCCCCATCGCCCGAATTTTTCACAGAATT	6715
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Sbjct	6716	ĠĠĂĊĠĠĠŢĠĊĠĊĊŦĂĊĂŦĂĠĠŤŤŤĠĊĠĊĊĊĊĊŢĠĊĂĂĠĊĊĊŤŤĠĊŢĠĊĠĠĠĀĠĠĀĠĠŢ	6775
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
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Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6836	ACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCC	6954
Sbjct	6896	GGCCGGGCGAAGGTTGGCGAG-GGGATCACCCCCTCTGTGGCCAGCTCCTCGGCTAGCC	6954
Query	6955	AGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCG	7014
Sbjct	6955	AGCTATCCGCTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTG	7014
Query	7015	AGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Sbjct	7015	AGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTG	7074
Query	7075	AGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATG	7134
Sbjct	7075	AGTCAGAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACG	7134
Query	7135	AGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCC	7194
Sbjct	7135	AGCGGGAGATCTCCGTACCCGCAGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCC	7194
Query	7195	TGCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTG	7254
Sbjct	7195	TGCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCG	7254
Query	7255	ACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGC	7314
Sbjct	7255	ACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGC	7314
Query	7315	CTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGG	7374
Sbjct	7315	CTCCGCCTCGGAAGAAGCGGACGGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGG	7374
Query	7375	CCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATA	7434

Sbjct	7375		7434
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Query	7555	GGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATT	7614
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Sbjct	7735	CTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACC	7794
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Query	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGG	7914
Sbjct	7855	TAGAGGAAGCTTGCAGCCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGG	7914 7974
Query Sbjct	7915 7915	CAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAG	7974
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Sbjct	7975		8034
Query	8035	TCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACC	8094
Sbjct	8035		8094
Query	8095	TGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTG	8153
Sbjct	8095	TGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTG	8153
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8214	ĠŦĠĊAĠĠĊĠŦĠĠAĠŦĊĊAĠĠAAAĊĊĊĊAĂŦĠĠĠĠŦŦĊŦĊĠŦĂŦĠAŦĂĊĊĊĠĊŦĠĊŦŦŦ	8273
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGAC	8333
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
Sbjct	8334	CTCGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGC	8393
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8394	CCTCTTACCAATTCARGGGGGGAGAACTGCGGCTATCGCAGGTGCCGCGCGCGCGC	8453
Query Sbjct	8454 8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513 8513
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Zuery	0014	COURT TO THE PROPERTY OF THE P	0010

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Length=9379
Score = 1.513e+04 bits (8192), Expect = 0.0 Identities = 8987/9386 (95%), Gaps = 14/9386 (0%)
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Query
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Sbjct
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Sbjct
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Query
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         202
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Sbjct	121		180
Query	203	TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181		240
Query	263	GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	322
Sbjct	241		300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301		360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	420
Query	443	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG	562
Sbjct	481	gcggtcgcaacctcgaggtagacgtcagcctatccccaaggctcgtcggcccgagggcag	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	ĠĂĊĊŢĠĠĊŢĊĀĠĊĊĊĠĠĠŢĀĊĊĊŢĠĠĠĊĊĊŢĊŢĀŢĠĠĊĀĀŢĠĀĠĠĠĊŢĠĊĠĠĠŢĠĠĠĊ	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCCCTGCCAGGGCCCTGGCCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAAGCGCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863 841	CTCTATCTTCCTTCTGGCCCTGCTCTTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922 900
Sbjct	923	CTCTAYCTTCCTTCTGGCCCTGCTCTTGCTTGACTGTGCCCGCTTCGGCCTACCAAGT GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Query Sbjct	901	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961		1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	1021		1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081		1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACTGTTCACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTA	1282
Sbjct	1201	TCCCAGGCGCCACTGGACGCAAGGTTGCAATTGCTCTATCTA	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342

Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGATCTGGTCCCCTACGACGGCGTTGGTART	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	ggctcagctgctccggatcccacaagccatcttggacatgatcgctggtgctcactgggg	1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT	1582
Sbjct	1501	CACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCGAAGAGTGTGTGTGTGCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCCGGCGCGCCCACCTACAGCTGGGGTGAAAATGATAC	1920
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Sbjct	1921	ggacgicticgiccitaacaataccaggccaccgctgggcaattggttcggttgtacctg	1980
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACACCCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	gggcaacaacaccctgcactgcccactgattgcttccgcaagcatccggacgccacata	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGMTCACACCCAGGTGCCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	gCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
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Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACTGGCAGGT	2362
Sbjct	2281	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACTACACAGTGGCAGGT	2340
Query	2363	CCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	cctcccgtgttccttcacaaccctaccagccttgtccaccggcctcatccacctacca	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482

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Query	2483	TAAGTGGGAGTACGTCGTTCCTGTTCCTTCTGCTTGCAGACGCGCGCG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCCTGTTCCTTGCTGCAGACGCGCGCG	2520
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Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TĠĊATĠĠŦĀTŦŢĠĀĀĠĠĠŦĀĀĠŦĠĠĠŦĠĊĊĠĠĀĠĊĠĠŦĊŦĀĊĀĊĊŦŦĊŦĀĊĠĠĠĀŦĠŦĠ	2700
Query	2723	GCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	gcctctcctcctgctcctgttggcgttgcccagcgggcgtacgcgctggacacggaggt	2760
Query	2783	GGCCGCGTCGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	ĠĠĊĊĠĊĠŤĊĠŤĠŤĠĠĊĠĠŦĠŤŤĠŤŤĊŤĊĠŤĊĠĠĠŤŤĠĂŤĠĠĊĠĊŤĠĂĊŤĊŤĠŤĊĂĊĂŤĂ	2820
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Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
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Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCCGAGGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178
Query	3201	ACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGGTGAGGTCCAGATTGTTGTCAACTGCCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620

Sbjct	3539		3598
Query	3621	AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599		3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659		3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719		3778
Query	3801	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	gggcacgccgtggcatatttagggccgcggtgtgcacccgtggagtggctaaggcggtg	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078 4160
Query Sbjct	4101 4079	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4100
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139		4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199		4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGGGGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	técetéactere de la réceau de la réception de l	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCATCCCGACCAGCGGCGATGTTGTC	4618
Query Sbjct	4641 4619	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700 4678
Query	4701	TGCAACACGTGTGCCCTCATGACCGGCTATACCGGCGACTCGACTCGGTGATAGAC	4070
Zuery	1 / U I	PADITADDATITIONAL TOOLOGICAL TRADECTOR TO TOO TOO TOO TOO TOO TOO TOO TOO T	1/00

Sbjct	4679	TRCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGAC	4880
Sbjct	4799	GGGAAGCCAGGCATCAACAGATTTGTGGCACCGGGGAGCGCCCCTCCGGCATGTTCGAC	4858
Query	4881	TCGTCCGTCCTCTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TĠĊĠĊŦĀĠĠĠĊŦĊĀĀĠĊĊĊĊŦĊĊĊĊĀŦĊĠŦĠĠĠĀĊĊĀĠĀŦĠŦĠĠĀĀĠŦĠŦŦĠĀŦŦĊĠĊ	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	ĊŢĊŖĠĠĊĊŖĊĊŢĊĊŖŢĠĠĊĊŖŖĊŢĠĊŢŖŢŢŖŢŖŢŖŢŖŢŖŢ	5218
Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
Sbjct	5219	ĠAAATĊAĊĊĊŢĠAĊĠĊAĊĊĠĠŢĊAĊĊAAATAĊAŢĊAŢĠAĊAŢĠĊAŢĠŢĊĠĠĊĊĠAĊĊŢĠ	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGCGTCTTGGCCGCGTAT	5360
Sbjct	5279	GÁGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TĠĊĊŦĠŦĊĂĀĊĀĠĠĊŦĠĊĠŦĠĠŦĊĂŦĀĠŦĠĠĠĊĀĠĠĠŦĊĠŦĊŦŦĠŦĊĊĠĠĠĀĀĠĊĊĠĠĊĀ	5398
Query	5421	ATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATCATACCTGACAGGGAAGTCCTCTACCGAG—AGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578	ĊŤĠĠĊĂAĂĂĂĊŤĊĠĂĠAĊĊŤŤĊŤĠĠĠĊĠĂĂĠĊĂŦĂŤĠŤĠĠĀĂĊŤŤĊĂŤĊĂĠŤĠĠĠĂŤĂĊĀ	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	atacttggcgggcttgtcaacgctgcctggtaaccccgccattgcttcattgatggcttt	5697
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	ġĠĠĠŦĠĠĠŦĠĠĊŦĠĊĊĊĠĠĊĊĠĊĊĊĊĠĠŦĠĊĊĠĊŦĂĊŦĠĊĊŦŦŦĠŦĠĠĠĊĠĊŦĠĠ	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899

Sbjct	5818	CTTAGCTGGCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCCGCCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	gcagtggatgaaccagctgatagccttcgcctcccgggggaaccatgtttcccccacgca	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	ctacgigccggagagcgaigcagcigcccgcgicacigccatacicagcagccicacigi	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	CGGGTATAAGGGGGTCTGGCGAGTG-GACGGCATCATGCACACTCGCTGCCACTGTGGAG	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596 6677
Query	6619 6597	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6655
Sbjct	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Query Sbjct	6656	CCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6715
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Sbjct	6716		6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776		6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836		6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895		6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036

Sbjct	6955		7014
Query	7037	GTGGAGGCAGGATGGGCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015		7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075		7134
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Sbjct	7135		7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195		7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	ggtggtcctcactgaatcaaccctatctactgccttggccgagctcgccaccagaagctt	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCÁGCTCCTCÁACTTCCGGCÁTTÁCGGGCGÁCÁATÁCGÁCÁACÁTCCTCTGÁGCCCGC	7434
Query	7457	CCCTTCTGGCTGccccccGACCTCCGACGTTGAGTCCTATTCTTCCATGccccccTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCTATTCCTCCATGCCCCCCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCTGGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555 7637	CAACGCGGAGGATGTCGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614 7696
Query Sbjct	7615	CCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7674
Ouerv	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAGT	7756
Sbjct	7675		7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735		7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795		7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855		7914
Query	7937	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915		7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	gggtcgtaagccagctcgtctcatcgtgttccccgatctgggcgtgcgcgtgtgcgaaaa	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175

Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
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Sbjct	8274	ACATCCGTACGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8453
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Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	8514	ccatgctcgtgtgtggcgacgacttagtcgttatctgtgaaagcgcgggggtccaggagg	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCaccccacgggg	8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCTGGGG	8633
Query	8656	acccccaCCACCACCACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
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Query	8716	TCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8775
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Sbjct	8754	TCGCGAGAGCTGCGTGGGAGACAGCAACACTCCAGTCAATTCCTGGCTAGGCAACA	8813
Query	8836	TAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8873
Query	8896	TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCT	8955
Sbjct	8874	TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT	8933
Query	8956	ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934	ACTCCATAGAACCACTTGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	8993
Query	9016	TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC	9075
Sbjct	8994	TTTCACTCCACAGTTACTCTCCAGGTGAAATTAATAGGGTGGCCGCATGCCTCAGAAAAC	9053
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Sbjct	9054	TTGGGGTACCGCCCTTGCGAGCTTGGRGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9113
Query	9136	TGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9195
Sbjct	9114	TGGCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA	9173
Query	9196	CAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGGTT	9255
Sbjct	9174	CAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCAGCTGGACTTGTCCGGCTGGTTCA	9233
Query	9256	CGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCCGCTGGT	9315

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9234
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Sbjct
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     9376
         9354
                              9379
Sbjct
         GAAGGTTGGGGTAAACACTCCGGCCT
>dbj|E08264.1|
           cDNA of Hepatitis C virus, HC-J1
Length=9502
Score = 1.487e+04 bits (8052), Expect = 0.0 Identities = 9024/9503 (94%), Gaps = 27/9503 (0%)
Strand=Plus/Plus
     1
         GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
Query
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Sbjct
     1
     61
         120
Query
         120
Sbjct
     61
Query
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Sbjct
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                                                       180
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     181
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     181
                                                       240
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Query
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Sbjct
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Query
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Sbjct
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                                                       480
Query
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     421
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                                                       540
Query
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     481
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     541
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Sbjct
     601
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                                                       660
Query
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Sbjct
                                                       660
Query
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Sbjct
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                                                       780
Query
     721
         721
Sbjct
                                                       780
Query
     781
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         Sbjct
     781
                                                       840
         GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG
Query
     841
                                                       900
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	0.1.1	111111111111111111111111111111111111111	
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAACTCCACAGGGCTTTATCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGC-CGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCG-CACGATGCCATCCTGCATACTCCGGGGTGT	1019
Query	1020	GTCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020	GTCCCTTGCGTTCGCGAGGGCAACGTCTCGAGGTGTTGGGTGGCGATGACCCCCACGGTA	1079
Query	1080	GCCACCAGGGACGCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080	GCCACCAGGGACGCAAACTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTC	1139
Query	1140	GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1199
Sbjct	1140	gggagcgccaccctctgttcggccctctacgtgggggatctgtgcgggtccgtcttcctt	1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGT	1259
Sbjct	1200	ATTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACAACGCAAGGCTGCAATTGT	1259
Query	1260	TCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGG	1319
Sbjct	1260	TCTATCTACCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGATGAACTGG	1319
Query	1320	TCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGAC	1379
Sbjct	1320	TCCCCTACGGCGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGAT	1379
Query	1380	ATGATCGCTGGTGCTCACTGGGGGGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Sbjct	1380	ATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Query	1440	AACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA-	1498
Sbjct	1440	AACTGGGCGAAGGTCCTGGTAGTGCTGTTGCCGGCGTCGACGCGGAAACC-AT	1498
Query	1499	CGTCACCGGGGGA-AATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTT-ACACCA	1556
Sbjct	1499	CGTCTCCGGGGGACAA-GCCGCCCGCGCCATGTCTGGACTTGTTAGTCTC-TTCACACCA	1556
Query	1557	GGCGCCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACG	1616
Sbjct	1557	GGCGCTAAGCAGAACATCCAGCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACG	1616
Query	1617	GCCTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCT-TCTATCAACA	1675
Sbjct	1617	GCCTTGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCT-TATCTATCAACA	1675
Query	1676	CAAATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTT	1735
Sbjct	1676	CAAATTCAACTCTTCGGGCTGTCCCGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTT	1735
Query	1736	TGCCCAGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTA	1795
Sbjct	1736	TGACCAGGGCTGGGGCCCTATCAGTCATGCCAACGGAAGCGCCCCGACCAACGCCCCTA	1795
Query	1796	CTGCTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCC	1855
Sbjct	1796		1855
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Sbjct	1856	GGTATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1915
Query	1916	TACCTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACC	1975
Sbjct	1916	TACCTACAACTGGGGTGCAAATGACACGGACGTCTTCGTCCTCAACAACACCAGGCCACC	1975
Query	1976	GCTGGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGG	2035

Sbjct	1976	GCTGGGCAATTGGTTCGGTTGCACCTGGATGAACTCAACTGGATTCACCAAGGTATGCGG	2035
Query	2036	AGCGCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTG	2095
Sbjct	2036	AGCGCCTCCTTGTGATTGGAGGGGGGGGCAACAACACCCTGCACTGCCCCACTGATTG	2095
Query	2096	CTTCCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACC	2155
Sbjct	2096	TTTCCGCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCTGGTCCCTGGATCACACC	2155
Query	2156	CAGGTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACAC	2215
Sbjct	2156	CAGATGCCTGGTCGACTATCCATATAGGCTTTGGCATTACCCTTGTACCATCAACTATAC	2215
Query	2216	CATATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAA	2275
Sbjct	2216	CATTTTTAAAGTTAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGATGCTGCCTGC	2275
Query	2276	CTGGACGCGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTT	2335
Sbjct	2276	ctggacgcgggggggacgatctggaagatagggacaggtccgagctcagcccgtt	2335
Query	2336	GCTGCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTT	2395
Sbjct	2336	gctgctgtccaccacgcagtggcaggtccttccgtgttcattca	2395
Query	2396	GTCCACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGT	2455
Sbjct	2396	gtccaccggcctcatccacctccaccagaacattgtggacgtgcagtacctgtacggggt	2455
Query	2456	AGGGTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCT	2515
Sbjct	2456	GGGGTCAAGCATCGCGTCCTGGGCCATCAAGTGGGAGTACGTCGTTCTCCTTCT	2515
Query	2516	GCTTGCAGACGCGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGA	2575
Sbjct	2516	GCTTGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAGGCGGA	2575
Query	2576	GGCGGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGC-ACGGTC	2634
Sbjct	2576	GGCGGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCGA-GGTC	2634
Query	2635	TTGTGTCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2694
Sbjct	2635	TTGTATCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2694
Query	2695	GAGCGGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGCGTTGCCTC	2754
Sbjct	2695	GAGCGGCCTACGCCCTCTACGGGATGTGGCCCCTGCTCCTGCTCCTGTTAGCGTTGCCCC	2754
Query	2755	AGCGGGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCG	2814
Sbjct	2755	AGCGGGCATACGCGTTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCG	2814
Query	2815	GGTTAATGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGT	2874
Sbjct	2815	GGTTAATGGCGCTGACCCTGTCACCATATTACAAGCGCTGTATCAGCTGGTGCTTATGGT	2874
Query	2875	GGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccaCCTCA	2934 2934
Sbjct	2875	GGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAATTGCACGTGTGGGTTCCCCCCCTCA	
Query Sbjct	2935 2935	ACGTCCggggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGG	2994 2994
_	2935	TATTTGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCA	3054
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Sbjct	3055	GTTTGCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAG	3114
Querv	3115	CGCGGAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTA	3174
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Sbjct	3115		3174
Query	3175	CTGGCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGC	3234
Sbjct	3175	CTGGCACCTATGTTTATAATCACCTGACTCCTCTTCGGGACTGGGCGCACAACGGCCTGC	3234
Query	3235	GAGATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCA	3294
Sbjct	3235	GAGACCTGGCCGTGGCCGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATCA	3294
Query	3295	CGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCC	3354
Sbjct	3295	CGTGGGGGGGGACACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCCGCCC	3354
Query	3355	GTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGT	3414
Sbjct	3355	GTAAGGGCCGGGAGATACTGCTCGGACCAGCCGATGGAATGGTCTCCAAAGGGTGGAGGT	3414
Query	3415	TGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCA	3474
Sbjct	3415	TGCTGGCGCCCATTACGGCGTACGCCCAGCAGACAAGGGGCCTCCTAGGGTGTATAATCA	3474
Query	3475	CCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTG	3534
Sbjct	3475	CCAGCCTAACTGGCCGGGATAAAAACCAAGTGGAGGGCGAGGTCCAGATTGTGTCAACTG	3534
Query	3535	CTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGG	3594
Sbjct	3535	ĊŢĠĊĊĊĸĸĸĊŢŢŢŢŢĠĠĊĸĸĊĠŢĠĊĸŢĊĸĸŢĠĠĠĠŢĸŢĠĊŢĠĠĸĊŢĠŢĊŢĸĊĊĸĊĠĠĠĠ	3594
Query	3595	CCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGG	3654
Sbjct	3595	CCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGTTATCCAGATGTATACCAACGTAG	3654
Query	3655	ACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCT	3714
Sbjct	3655	accaagacctcgttggctggcccgctctcaaggtgcccgctcattgacaccctgcacct	3714
Query	3715	GCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGC	3774
Sbjct	3715	ĠĊĠĠĊŦĊĊŦĊĠĠĂĊĊŦŦŦĂĊŦŦĠĠŦĊĂĊĠĂĠĠĊĂĊĠĊĊĠĂŦĠŦĊĂŦŦĊĊĊĠŦĠĊĠĊĊĠĠĊ	3774
Query	3775	GAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCT	3834
Sbjct	3775	GGGGTGATAGCAGGGCAGCCTGCTGTCACCCCGGCCCATTTCCTACTTGAAAGGCTCCT	3834
Query	3835	CGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGTGT	3894
Sbjct	3835	CGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGTCGTAGGCATATTCAGGGCCGCGGTGT	3894
Query	3895	GCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCA	3954
Sbjct	3895	GCACCCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAGCCTAGAGACAACCA	3954
Query	3955	TGAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGG	4014
Sbjct	3955	TGAGGTCCCCGGTGTTTACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGG	4014
Query	4015	TGGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACG	4074
Sbjct	4015	TĠĠĊĊĊĂĊĊŦĠĊĂŦĠĊŦĊĊĊĂĊĠĠĠĊĂĠĊĠĠĊĂĀĠĀĠĊĂĊĊĂĂĠĠŦĊĊĊĠĠĊŦĠĊĀŤĀŦĠ	4074
Query	4075	CAGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTG	4134
Sbjct	4075	CAGCTCAGGGCTATAAGGTGCTAGTGCTCAACCCCTCTGTTGCCGCAACACTGGGCTTTG	4134
Query	4135	GTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAA	4194
Sbjct	4135	ĠŦĠĊŦŦĀĊĀŦĠŦĊĊĀĀĠĠĊĊĊĀĊĠĠĠāŦŦĠĀŦĊĊŦĀĀŦĀŦĊĀĠĠĀĊĊĠĠĠĠŦĠĀĠĀĀĊĀĀ	4194
Query	4195	TTACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGGGGT	4254
Sbjct	4195	ttaccactigicagececateacitactetacetacigicaagtteettigetigatigiegigit	4254
Query	4255	GCTCAGGAGGTGCTTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACAT	4314

Sbjct	4255	GCTCGGGGGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACAT	4314
Query	4315	CCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGACTGCGGGGGGGG	4374
Sbjct	4315	CCGTCTTGGGCATCGGTACCGTCCTTGACCAGGCAGAGCCGCGGGGGGGG	4374
Query	4375	TGCTCGCCACTGCTACCCCTCCGGGCTCCG-TCACTGTGTCCCAT-CCTAACATCGAGGA	4432
Sbjct	4375	TGCTCGCCACCGCCACCCCTCCGGGCTC-GATCACCGTGCCCATGCC-AACATCGAGGA	4432
Query	4433	GGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGT	4492
Sbjct	4433	GGTCGCTCTGTCCACCACCGGAGAGATCCCATTTTACGGCAAGGCCATCCCCCTCGAAGC	4492
Query	4493	GATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGC	4552
Sbjct	4493	AATCAAGGGGGGGAGACATCTCATTTTCTGCCACTCAAAAAAAA	4552
Query	4553	CGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTC	4612
Sbjct	4553	CGCGAAGCTGGTCGCATTGGGCGTCAATGCTGTGGCCTACTACCGCGGTCTTGACGTGTC	4612
Query	4613	TGTCATCCCGACCAGCGGCGATGTTGTCGTCGTCGTCGACCGATGCTCTCATGACTGGCTT	4672
Sbjct	4613	TGTCATCCCGACCAGCGGCGATGTTGTCGTGGCAACTGATGCTCTCATGACTGGCTA	4672
Query	4673	TACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTT	4732
Sbjct	4673	TACCGGCGACTCGACTCGGTGATAGACTGCAACACGTGTGTCACCCAGACAGTCGATTT	4732
Query	4733	CAGCCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAG	4792
Sbjct	4733	CAGCCTTGACCCTACCTTCACCATTGAGACAACCACGCTTCCCCAGGATGCTGTCTCCCG	4792
Query	4793	GACTCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACC	4852
Sbjct	4793	CÁCTCAGCGTCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACC	4852
Query	4853	GGGGGAGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTGTGAGTGCTATGACGCGGG	4912
Sbjct	4853	gggggagcgtccttccggcatgttcgactcgtccatcctctgtgagtgctatgacacggg	4912
Query	4913	CTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAA	4972
Sbjct	4913	CTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTGCGAGCGTACATGAA	4972
Query	4973	CACCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGG	5032
Sbjct	4973	CÁCCCCGGGGCTTCCCGTGTGCCAGGÁCCATCTTGAATTTTGGGAGGGCGTCTTTACAGG	5032
Query	5033	CCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCC	5092
Sbjct	5033	CCTCACCCATATAGATGCCCACTTCCTATCCCAGACAAAGCAGGGTGGGGAGAACTTTCC	5092
Query	5093	TTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTG	5152
Sbjct	5093	TTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTG	5152
Query	5153	GGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCC	5212
Sbjct	5153	ĠĠĂĊĊĂĠĂŦĠŦĠĠĂĀĠŦĠĊŤĠĂŦĊĊĠĊĊŤĊĂĂĂĊĊĊĂĊĊĊŤĊĊĂŦĠĠĠĊĊĂĀĊĂĊĊŤĊŤ	5212
Query	5213	GCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATA	5272
Sbjct	5213	GCTATACAGACTGGGCGCTGTCCAGGGTGAAGTCACCCTGACGCACCCAGTCACCAAATA	5272
Query	5273	CATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGG	5332
Sbjct	5273	CATCATGACATGCCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGG	5332
Query	5333	CGGCGTCCTGGCTGCTCGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGG	5392
Sbjct	5333	cgccgtcctgcctctgcccgcgtattgcctgtcgacaggctgcgtgctcatagtgg	5392
Query	5393	CAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGA	5452

Sbjct	5393	CAGGATTGTCTGTCCGGGAGGCCGGCAATCATACCAGACAGGGAAGTTCTCTACCGGGA	5452
Query	5453	GTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCT	5512
Sbjct	5453	GTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTATATCGAACAAGGGATGATGCT	5512
Query	5513	CGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGA	5572
Sbjct	5513	CGCCGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAGGCAGA	5572
Query	5573	GGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCA	5632
Sbjct	5573	GGTTATCGCCCCTACTGTCCAAACCAACTGGCAAAAACTCGAGGCCTTCTGGGCGAAGCA	5632
Query	5633	CATGTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAA	5692
Sbjct	5633	TATGTGGAATTTCATCAGTGGGATACAATATTTGGCCGGCC	5692
Query	5693	CCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGG	5752
Sbjct	5693	ccccgccattgcttcattgatggcttttacagctgctgtcaccagcccactaaccactag	5752
Query	5753	CCAAACCCTCCTCTAACATATTggggggTGGGTGGCTGCCCAGCTCGCCCCCCGG	5812
Sbjct	5753	ccaaaccctcctcttcaacatattgggggggtggctgctcagctcgcccccgg	5812
Query	5813	TGCCGCTACTGCCTTTGTGGG-TGCTGGCCTAGCTGGCCGCCGCCATCGGCAGCGTTGGAC	5871
Sbjct	5813	TGCCGCCACCGCCTTTGTGGGCTCC-GGCTTGGCTGGCGCCGCCGTCGGCAGTGTCGGAC	5871
Query	5872	TGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTG	5931
Sbjct	5872	TGGGGAGGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGGGCTCTTG	5931
Query	5932	TAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGC	5991
Sbjct	5932	TAGCATTTAAAATCATGAGCGGTGAGCTCCCCTCCACAGAGGACCTGGTCAATCTACTGC	5991
Query	5992	CCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTCTGCGCAGCAATACTGCGCC	6051
Sbjct	5992	CCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGTGCGGCAATACTGCGCC	6051
Query	6052	GGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCT	6111
Sbjct Query	6052 6112	CCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6171
Sbjct	6112		6171
Query	6172	TCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGA	6231
Sbjct	6172		6231
Query	6232	TAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGA	6291
Sbjct	6232		6291
Query	6292	TATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGC	6351
Sbjct	6292		6351
Query	6352	CTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCA	6411
Sbjct	6352		6411
Query	6412	TTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGA	6471
Sbjct	6412		6471
Query	6472	TGAGGATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACG	6531
Sbjct	6472		6531
Query	6532	CCTACACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGA	6591

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Sbjct	6532 6592	CCTACACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTACACGTTCGCGCTATGGA  GGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGT-ATCG	6591 6650
Query	6592	GGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCG	6650
Sbjct	6651		6710
Query	6651	GGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACA	6710
Sbjct	6711		6770
Query	6711	GAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAG	6770
Sbjct Query	6771	GAGGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAG	6830
Sbjct	6771	GAGGTATCATTCAGGGTAGGACTCCACGATTACCCGGTGGGGTCGCAATTACCTTGCGAG  GAGGTATCATTCAGGGTAGGACTCCACGATTACCCGGTGGGGTCGCAATTACCTTGCGAG	6830
Query	6831	CCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6890
Sbjct	6831		6890
Query	6891	GAGGCGGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCCTTCT-ATGGCCAGCTCCTCGG	6948
Sbjct	6891		6948
Query	6949	CTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTG	7008
Sbjct	6949		7008
Query	7009	ACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCA	7068
Sbjct	7009		7068
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Sbjct	7069		7128
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Sbjct	7129		7188
Query	7189	GGGCCCTGCCCGTCTGGGCGCCGGCCGGACTACAACCCCCCGCT-AGTAGAGACGTGGAAA	7247
Sbjct	7189		7247
Query	7248	AAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCT	7307
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Query	7308	CCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACT	7367
Sbjct	7308	CCTGTGCCTCCGCCTCGGAAAAAGCGGACGGTGGTCCTCACCGAATCGACCCTATCCACT	7367
Query	7368	GCCTTGGCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGC	7427
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Sbjct	7428	GACAATACGACAACGTCCTCTGAGCCCGCCCCTTCTGGCTGTTCCCCAGACTCCGACGCT	7487
Query	7488	GAGTCCTATTCTTCCATGCCCCCCTGGAGGGGGGGGCCTGGGGATCCGGATCTCAGCGAC	7547
Sbjct	7488	GAGTCCTATTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGAC	7547
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Sbjct	7548	GGGTCATGGTCGACGGTCAGTAGTGAGGCCGGCACGGAAGACGTTGTGTGCTGCTCAATG	7607
Query	7608	TCTTATTCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAACTGCCC	7667
Sbjct	7608	TCTTATACTTGGACAGGCGCACTTATCACCCCGTGCGCGGGAAGAACAAAAACTGCCC	7667
Query	7668	ATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCA	7727

Sbjct	7668		7727
Query	7728	CGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGC	7787
Sbjct	7728		7787
Query	7788	CATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTG	7847
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Query	7848	CTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGC	7907
Sbjct	7848		7907
Query	7908	TATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTG	7967
Sbjct	7908		7967
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Sbjct	7968		8027
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Sbjct	8148	CCCCGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAG	8207
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Sbjct	8208	TTCCTCGTGCAAGCGTGGAAGTCCAAGAGGACCCCAATGGGGTTCTCGTATGATACCCGC	8267
Query	8268	TGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGT	8327
Sbjct	8268	TĠĊŢŢŢĠĂĊŢĊĊĂĊĀĠŢĊĂĊŢĠĀĠĀĠĊĠĂŢĂŢĊĊĠŢĂĊĠĠĀĠĠĀĠĠĊĀĀŢĊŢĀĊĊĀĀŢĠŢ	8327
Query	8328	TGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTT	8387
Sbjct	8328	TGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAGGTCCCTCACTGAGAGGCTTTATGTT	8387
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Sbjct	8388	GGGGGCCCTCTTACCAACTCAAGGGGGGAGAACTGCGGCTATCGCAGGTGCCGTGCGAGC	8447
Query	8448	GGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCC	8507
Sbjct	8448	GGCGTACTGACAACCAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCC	8507
Query	8508	TGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTT	8567
Sbjct	8508	TGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGTGACGACTTAGTCGTT	8567
Query	8568	ATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGGGGGCCTGAGAGCCTTCACGGAGGCT	8627
Sbjct	8568 8628	ATCTGTGAGAGTGCGGGGGTCCAGGAGGACGCGGGGGGGCCTGAGAGCCTTCACGGAGGCT	8627 8687
Query		ATGACCAGGTACTCCGccccccccggggacccccACAACCAGAATACGACTTGGAGCTT	
Sbjct	8628 8688	ATGACCAGGTACTCCGCTCCCCCGGGGACCCCCCCAACCAGAATACGACTTGGAGCTC ATAACATCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTAC	8687 8747
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Sbjct	8688 8748		8747
Query	8748	TACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACAC	8807
Sbjct	8748	TACCTTACCCGTGACCCTACAACTCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGGCAC	8807
Query	0000	ACTCCAGTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGG	000/

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Sbjct
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Sbjct
>dbj|E08263.1| gRNA of Hepatitis C virus, HC-J1
Length=9502
Score = 1.486e+04 bits (8046), Expect = 0.0 Identities = 9023/9504 (94%), Gaps = 29/9504 (0%)
Strand=Plus/Plus
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Sbjct
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Sbjct
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Query
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Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGATTCCCAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Query	481	GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Sbjct	481	GCGCGACGAGGAAGACTTCCGAGCGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA	540
Query	541	AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Sbjct	541	AGGTGCGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGGTTGCGGGTGGCCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCT	660
Sbjct	601	GCAATGAGGGCTGCGGGTGGCCGGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGTT	660
Query	661	GGGGCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTA	720
Sbjct	661	ggggcccacggaccccggcgtaggtcgcgcaatttgggtaaggtcatcgataccctca	720
Query	721	CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG	780
Sbjct	721	cgtgcgcttcgccgacctcatggggtacataccgctcgtcggcgcccctcttggaggcg	780
Query	781	CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG	840
Sbjct	781	ĊŢĠĊĊŔĠĠĠĊĊŢĠĠĊĠĊŔŢĠĠĊĠŢĊĊĠĠĠŢŢĊŢĠĠŔŔĠĊĠŢĠŔŔĊŢŔŢĠĊŔŔĊŔĠ	840
Query	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Sbjct	841	GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG	900
Query	901	TGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATT	960
Sbjct	901	TGCCCGCTTCAGCCTACCAAGTGCGCAACTCCACAGGGCTTTATCATGTCACCAATGATT	960
Query	961	GCCCTAACTCGAGTATTGTGTACGAGGCGGC-CGATGCCATCCTGCACACTCCGGGGTGT	1019
Sbjct	961	GCCCTAACTCGAGTATTGTGTACGAGGCG-CACGATGCCATCCTGCATACTCCGGGGTGT	1019
Query	1020	GTCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTG	1079
Sbjct	1020	GTCCCTTGCGTTCGCGAGGGCAACGTCTCGAGGTGTTGGGTGGCGATGACCCCCACGGTA	1079
Query	1080	GCCACCAGGGACGCCAAACTCCCCACAACGCAGCTTCGACGTCATATCGATCTGCTTGTC	1139
Sbjct	1080	GCCACCAGGGACGCAAACTCCCCGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTC	1139
Query	1140	GGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGGTCTGTCT	1199
Sbjct	1140	GGGAGCGCCACCCTCTGTTCGGCCCTCTACGTGGGGGATCTGTGCGGGTCCGTCTTCCTT	1199
Query	1200	GTTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGT	1259
Sbjct	1200	ATTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACAACGCAAGGCTGCAATTGT	1259
Query	1260	TCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGAACTGG	1319
Sbjct	1260	TCTATCTACCCCGGCCATATAACGGGTCATCGCATGGCATGGGATATGATGAACTGG	1319
Query	1320	TCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGAC	1379
Sbjct	1320	TCCCCTACGGCGGCGTTGGTAATGGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGAT	1379
Query	1380	ATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Sbjct	1380	ATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGG	1439
Query	1440	AACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCA-	1498

Sbjct	1440	AACTGGGCGAAGGTCCTGGTAGTGCTGTTGCTGTTTGCCGGCGTCGACGCGGAAACC-AT	1498
Query	1499	CGTCACCGGGGGA-AATGCCGGCCGCACCACGGCTGGGCTTGTTGGTCTCCTT-ACACCA	1556
Sbjct	1499		1556
Query	1557	GGCGCCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACG	1616
Sbjct	1557	GGCGCTAAGCAGAACATCCAGCTGATCAACACCAACGGCAGTTGGCACATCAATAGCACG	1616
Query	1617	GCCTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCT-TCTATCAACA	1675
Sbjct	1617	GCCTTGAACTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGGCT-TATCTATCAACA	1675
Query	1676	CAAATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTT	1735
Sbjct	1676	CAAATTCAACTCTTCGGGCTGTCCCGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTT	1735
Query	1736	TGCCCAGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGCCCTCGACGAACGCCCCTA	1795
Sbjct	1736	TGACCAGGGCTGGGGCCCTATCAGTCATGCCAACGGAAGCGGCCCCGACCAACGCCCCTA	1795
Query	1796	CTGCTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCC	1855
Sbjct	1796	TTĠTTĠĠĊAĊŤAĊĊĊĊĊAAAAĊĊŤŤĠĊĠĠŦAŤĊĠŤĠĊĊĠĊAAAĠAĠĊĠŤAŤĠŤĠĠĊĊĊ	1855
Query	1856	GGTATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1915
Sbjct	1856	ggtatattgcttcactcccagccccgtggtggtgggaacgaccgac	1915
Query	1916	TACCTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACC	1975
Sbjct	1916	TÁCCTÁCAACTGGGGTGCÁAATGÁCÁCGGÁCGTCTTCGTCCTCÁACAACACCAGGCCÁCC	1975
Query	1976	GCTGGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGG	2035
Sbjct	1976	ĠĊŢĠĠĊĂĂŢŢĠĠŢŢĊĠĠŢŢĠĊĂĊĊŢĠĠĂŢĠĂĂĊŢĊĂĊŢĠĠĂŢŢĊĂĊĊĂĂĠĠŢĀŢĠĊĠĠ	2035
Query	2036	AGCGCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTCTGCCCCACTGATTG	2095
Sbjct	2036	AĞCĞCCTCCTTĞTĞTĞATTĞĞAĞĞĞĞĞĞĞĞĞAACAACACCCTĞCACTĞCCCCACTĞATTĞ	2095
Query	2096	CTTCCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACC	2155
Sbjct	2096	TTTCCGCAAGCATCCGGAAGCCACATACTCTCGGTGCGGCTCTGGTCCCTGGATCACACC	2155
Query	2156	CAGGTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACAC	2215
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Query	2216	CATATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAA	2275
Sbjct	2216	CATTTTTAAAGTTAGGATGTACGTGGGAGGGGTCGAGCACAGGCTGGATGCTGCCAA	2275
Query	2276	CTGGACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTT	2335
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Sbjct	2395	TGTCCACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAGTACCTGTACGGGG	2454
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Sbjct	2455	TGGGGTCAAGCATCGCGTCCTGGGCCATCAAGTGGGAGTACGTCGTTCTCCTTC	2514
Query	2515	TGCTTGCAGACGCGCGCTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGG	2574
Sbjct	2515	tgcttgcagacgcgcgcgtctgctcctgcttgtggatgatgctactcatatcccaggcgg	2574
Query	2575	AGGCGGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGC-ACGGT	2633

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Query	2634	CTTGTGTCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2693
Sbjct	2634	CTTGTATCCTTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2693
Query	2694	GGAGCGGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGTTGCCT	2753
Sbjct	2694	GGAGCGGCCTACGCCCTCTACGGGATGTGGCCCCTGCTCCTGCTCCTGTTAGCGTTGCCC	2753
Query	2754	CAGCGGGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTC	2813
Sbjct	2754	CAGCGGCATACGCGTTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTC	2813
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Sbjct	2814	gggttaatggcgctgaccctgtcaccatattacaagcgctgtatcagctggtgcttatgg	2873
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Sbjct	2874	TGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAATTGCACGTGTGGGTTCCCCCCCTC	2933
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Sbjct	2934	AACGTTCGAGGAGGCGCGACGCCGTCATCTTACTCATGTGTGTACACCCGACTCTG	2993
Query	2994	GTATTTGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCC	3053
Sbjct	2994	GTATTTGACATCACCAAACTACTGCTGGCCGTCCTGGGACCCCTTTGGATTCTCCAAGCC	3053
Query	3054	AGTTTGCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTA	3113
Sbjct	3054	AGTTTGCTTAAAGTACCCTACTTCGTGCGCGTCCAAGGCCTTCTCCGGATCTGCGCGCTG	3113
Query	3114	GCGCGGAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTT	3173
Sbjct	3114	ĠĊĠĊĠĠĂĂĠĂŦĠĠŦĊĠĠĂĠĠĊĊĂŦŦĂĊĠŦĠĊĂĂĂŦĠĠĊŦĂŦĊĂŦĊĂĀĠŦŦĀĠĠĠĠĊĠĊŦŦ	3173
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Sbjct	3174	ACTGGCACCTATGTTTATAATCACCTGACTCCTCTTCGGGACTGGGCGCACAACGGCCTG	3233
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Sbjct	3234	CGAGACCTGGCCGTGGCCGTAGAGCCAGTCGTCTTCTCCCAAATGGAGACCAAGCTCATC	3293
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Query	3354	CGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGG	3413
Sbjct	3354	CGTAAGGGCCGGGAGATACTGCTCGGACCAGCCGATGGAATGGTCTCCAAAGGGTGGAGG	3413
Query	3414	TTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATC	3473
Sbjct	3414	TTGCTGGCGCCCATTACGGCGTACGCCCAGCAGACAAGGGGCCTCCTAGGGTGTATAATC	3473
Query	3474	ACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACT	3533
Sbjct	3474	ACCAGCCTAACTGGCCGGGATAAAAACCAAGTGGAGGGCGAGGTCCAGATTGTGTCAACT	3533
Query	3534	GCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGG	3593
Sbjct	3534	GCTGCCCAAACTTTTCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGG	3593
Query	3594	GCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTG	3653
Sbjct	3594	GCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGTTATCCAGATGTATACCAACGTA	3653
Query	3654	GACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACC	3713
Sbjct	3654	GACCAAGACCTCGTTGGCTGGCCCGCTCCTCAAGGTGCCCGCTCATTGACACCCTGCACC	3713
Query	3714	TGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGG	3773

Sbjct	3714	TGCGGCTCCTCGGACCTTTACTTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGG	3773
Query	3774	CGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCC	3833
Sbjct	3774	CGGGGTGATAGCAGGGCAGCCTGCTGTCACCCCGGCCCATTTCCTACTTGAAAGGCTCC	3833
Query	3834	TCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTG	3893
Sbjct	3834	TCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGTCGTAGGCATATTCAGGGCCGCGGTG	3893
Query	3894	TGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACC	3953
Sbjct	3894	TGCACCCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGAGCCTAGAGACAACC	3953
Query	3954	ATGAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAG	4013
Sbjct	3954	ATGAGGTCCCCGGTGTTTACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAG	4013
Query	4014	GTGGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTAC	4073
Sbjct	4014	gradiczeczaczaczaczaczaczaczaczaczaczaczaczaczac	4073
Query	4074	GCAGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTT	4133
Sbjct	4074	gcagctcagggctataaggtgctagtgctcaacccctctgttgccgcaacactgggcttt	4133
Query	4134	GGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACA	4193
Sbjct	4134	ĠĠŢĠĊŢŢŖĊĸŢĠŢĊĊŖŖĠĠĊĊŖĊĠĠĠĸŢŢĠĸŢĊĊŢŖĸŢĸŢĊĸĠĠĸĊĊĠĠĠĠŢĠĸĠĸĸĊĸ	4193
Query	4194	ATTACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGG	4253
Sbjct	4194	ATTACCACTGGCAGCCCCATCACGTACTCTACCTACGGCAAGTTCCTTGCTGATGGCGGG	4253
Query	4254	TGCTCAGGAGGTGCTTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACA	4313
Sbjct	4254	TGCTCGGGGGGCGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACA	4313
Query	4314	TCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4373
Sbjct	4314	TCCGTCTTGGGCATCGGTACCGTCCTTGACCAGGCAGACCGCGGGGGGGG	4373
Query	4374	GTGCTCGCCACTGCTACCCCTCCGGGCTCCG-TCACTGTGTCCCAT-CCTAACATCGAGG	4431
Sbjct	4374	GTGCTCGCCACCGCCACCCCTCCGGGCTC-GATCACCGTGCCCCATGCC-AACATCGAGG	4431
Query	4432	AGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGG	4491
Sbjct	4432	AGGTCGCTCTGTCCACCACCGGAGAGATCCCATTTTACGGCAAGGCCATCCCCCTCGAAG	4491
Query	4492	TGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCG	4551
Sbjct	4492	CAATCAAGGGGGGAGACATCTCATTTTCTGCCACTCAAAAAAAA	4551
Query	4552	CCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGT	4611
Sbjct	4552	CCGCGAAGCTGGTCGCATTGGGCGTCAATGCTGTGGCCTACTACCGCGGTCTTGACGTGT	4611
Query	4612	CTGTCATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCT	4671
Sbjct	4612	CTGTCATCCCGACCAGCGGCGATGTTGTTGTCGTGGCAACTGATGCTCTCATGACTGGCT	4671
Query	4672	TTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATT	4731
Sbjct	4672	ATACCGGCGACTTCGACTCGGTGATAGACTGCAACACGTGTGTCACCCAGACAGTCGATT	4731
Query	4732 4732	TCAGCCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCA	4791 4791
Sbjct	4732		4 / 9 1
Query Sbjct	4792	GGACTCAACGCCGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCAC	4851
_		GCACTCAGCGTCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTACAGATTTGTGGCAC	4911
Query	4852	CGGGGGAGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGG	4 7 L L

Sbjct	4852	CGGGGGAGCGTCCTTCCGGCATGTTCGACTCGTCCATCCTCTGTGAGTGCTATGACACGG	4911
Query	4912	GCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGA	4971
Sbjct	4912	GCTGTGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTGCGAGCGTACATGA	4971
Query	4972	ACACCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGG	5031
Sbjct	4972	ACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACAG	5031
Query	5032	GCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAGCAGAGTGGGGAGAACTTTC	5091
Sbjct	5032	GCCTCACCCATATAGATGCCCACTTCCTATCCCAGACAAAGCAGGGTGGGGAGAACTTTC	5091
Query	5092	CTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGT	5151
Sbjct	5092	CTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGT	5151
Query	5152	GGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCC	5211
Sbjct	5152	gggaccagatgtggaagtgcttgatccgcctcaaacccaccc	5211
Query	5212	TGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAAT	5271
Sbjct	5212	TĠĊŦĂŦĂĊĀĠĂĊŦĠĠĠĊĠĊŦĠŦĊĊĀĠĠĠŦĠĂĀĠŦĊĂĊĊŦĠĂĊĠĊĀĊĊĊĀĠŦĊĀĊĊĀĀĀŦ	5271
Query	5272	ACATCATGACATGCCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTG	5331
Sbjct	5272	ACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTG	5331
Query	5332	GCGGCGTCCTGGCTGTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGG	5391
Sbjct	5332	GCGGCGTCCTGGCTGTCTGGCCGCGTATTGCCTGTCGACAGGCTGCGTGGTCATAGTGG	5391
Query	5392	GCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGG	5451
Sbjct	5392	GCAGGATTGTCTTGTCCGGGAGGCCGGCAATCATACCAGACAGGGAAGTTCTCTACCGGG	5451
Query	5452	AGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGC	5511
Sbjct	5452	AGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTATATCGAACAAGGGATGATGC	5511
Query	5512	TCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAG	5571
Sbjct	5512	TCGCCGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCAGGCAG	5571 5631
Query Sbjct	5572 5572	AGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGC	5631
Query	5632	ACATGTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTA	5691
Sbjct	5632		5691
Query	5692	ACCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTG	5751
Sbjct	5692		5751
Querv	5752	GCCAAACCCTCCTCTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCG	5811
Sbjct	5752		5811
Query	5812	GTGCCGCTACTGCCTTTGTGGG-TGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGA	5870
Sbjct	5812		5870
Query	5871	CTGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTT	5930
Sbjct	5871	CTGGGGAGGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGGGCTCTT	5930
Query	5931	GTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTG	5990
Sbjct	5931		5990
Query	5991	CCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGC	6050

Sbjct	5991		6050
Query	6051	CGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCC	6110
Sbjct	6051		6110
Query	6111	TCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6170
Sbjct	6111		6170
Query	6171	GTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGG	6230
Sbjct	6171		6230
Query	6231	ATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGG	6290
Sbjct	6231	CTAAGCTCGGAGAGCACTACTCCATGCTCCGGCTCCTGGCTAAGGGACATCTGGGACTGG	6290
Query	6291	ATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTG	6350
Sbjct	6291	ATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTAAAAAACCAAGCTCATGCCACATCTG	6350
Query	6351	CCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGC	6410
Sbjct	6351	CCTGGGATTCCCTTTGTGTCCTGCCAGCACGGGTATAAGGGGGTCTGGCGGGGGGGACGGC	6410
Query	6411	ATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACG	6470
Sbjct	6411	ATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGAACG	6470
Query	6471	ATGAGGATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAAC	6530
Sbjct	6471	ATGAGGATCGTCGGTCCTAAGACCTGTAGGAACATGTGGAGTGGGACCTTCCCCATTAAC	6530
Query	6531	GCCTACACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGG	6590
Sbjct	6531	GCCTACACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTACACGTTCGCGCTATGG	6590
Query	6591	AGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATC	6649
Sbjct	6591	AGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTGA-C	6649
Query	6650	GGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCAC	6709
Sbjct	6650	AĠĠĊĀŢĠĀĊŢĠĀŢĀĀŢĊŢĊĀĀĀŢĠĊĊĠŢĠĊĊĀĠĠŢĊĊĊĀŢĊĠĊĊĠĀĀŢŢŢŢĊĀĊ	6709
Query	6710	AGAATTGGACGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGA	6769
Sbjct	6710	AĞAATTĞĞACĞĞĞĞTĞCĞCCTACATAĞĞTTTĞCĞCCCCCTĞCAAĞCCCTTĞCTĞCĞĞĞA	6769
Query	6770	GGAGGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGA	6829
Sbjct	6770	gĠaĠĠŦāŦĊāŦŦĊāĠĠĠŦāĠĠāĊŦĊĊāĊĠāŦŦāĊĊĊĠĠŦĠĠĠĠŦĊĠĊāāŦŦāĊĊŦŦĠĊĠā	6829
Query	6830	GCCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6889
Sbjct	6830	GCCCGAACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6889
Query	6890	AGAGGCGGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCCTTCT-ATGGCCAGCTCCTCG	6947
Sbjct	6890	AĞCĞĞCÇĞĞÇÇĞĞAĞAAĞĞTTĞĞÇĞAĞ—ĞĞĞATÇAÇÇÇÇTTÇTĞA—ĞĞÇÇAĞÇTÇÇTÇĞ	6947
Query	6948	GCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCT	7007
Sbjct	6948	ġĊŦĀĠĊĊĀĠĊŦĠŦĊĊĠĊŦĊĊĂŦĊŦĊŦĊĀĀĠĠĊĀĀĊŦŦĠĊĀĊĊĀŦĊĀĀĊĊĀŦĠĀĊŦĊĊĊĊŦ	7007
Query	7008	GACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACC	7067
Sbjct	7008	GACGCCGAGCTCATAGAAGCTAACCTCCTATGGAGGCAAGAGATGGGCCGGCAACATCACC	7067
Query	7068	AGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAG	7127
Sbjct	7068	agggttgagtcagagaacaaagtggtgattctggactccttcgatccgcttgtggcggag	7127
Query	7128	GAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCC	7187

Sbjct	7128		7187
Query	7188	CGGGCCTGCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCT-AGTAGAGACGTGGAA	7246
Sbjct	7188		7246
Query	7247	AAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCC	7306
Sbjct	7247		7306
Query	7307	TCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTAC	7366
Sbjct	7307		7366
Query	7367	TGCCTTGGCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGG	7426
Sbjct	7367	TGCCTTGGCCGAGCTTGCCGCTAAAAGTTTCGGCAGTTCCTCAACTTCCGGCATTACGGG	7426
Query	7427	CGACAATACGACAACATCCTCTGAGCCCGCCCTTCTGGCTGcccccGACTCCGACGT	7486
Sbjct	7427	cgacaatacgacaacgtcctctgagcccgcccttctggctgttccccagactccgacgc	7486
Query	7487	TGAGTCCTATTCTTCCATGeeccccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGA	7546
Sbjct	7487	TĠĀĠŦĊĊŦĀŦŦĊŦŦĊĊĂŦĠĊĊĊĊĊĊŦĠĠĀĠĠĠĠĠĠĠĠĊĊŦĠĠĠĠĀŦĊĊĠĠĀŦĊŦĊĀĠĊĠĀ	7546
Query	7547	CGGGTCATGGTCGACGGTAGTGGGGGCCGACACGGAAGATGTCGTGTGCTCCAAT	7606
Sbjct	7547	CGGGTCATGGTCGACGGTCAGTAGTGAGGCCGGCACGGAAGACGTTGTGTGCTGCTCAAT	7606
Query	7607	GTCTTATTCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCC	7666
Sbjct	7607	GTCTTATACTTGGACAGGCGCACTTATCACCCCGTGCGCCGCGGAAGAACAAAAACTGCC	7666
Query	7667 7667	CATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTC	7726 7726
Sbjct Query	7727	ACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAG	7786
Sbjct	7727	ACGCAGTGCTTGCCAAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAG	7786
Query	7787	CCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTT	7846
Sbjct	7787		7846
Query	7847	GCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGG	7906
Sbjct	7847		7906
Query	7907	CTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGT	7966
Sbjct	7907		7966
Query	7967	GTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAA	8026
Sbjct	7967	GTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATACAAACTACCATCATGGCTAAGAA	8026
Query	8027	CGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTT	8086
Sbjct	8027	CGAGGTTTTTTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTT	8086
Query	8087	CCCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCT	8146
Sbjct	8087	ccccgarctgggtgtgcgcgtgtgcgagaagatggccctgtacgacgtggttagcaagct	8146
Query	8147	CCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGA	8206
Sbjct	8147	CCCCCGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGA	8206
Query	8207	ATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCG	8266
Sbjct	8207	GTTCCTCGTGCAAGCGTGGAAGTCCAAGAGGACCCCAATGGGGTTCTCGTATGATACCCG	8266
Query	8267	CTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATG	8326

Sbjct	8267		8326
Query	8327	TTGTGACCTGGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGT	8386
Sbjct	8327		8386
Query	8387	TGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAG	8446
Sbjct	8387		8446
Query	8447	CGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGC	8506
Sbjct	8447		8506
Query	8507	CTGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGT	8566
~ <sup>1</sup> Sbjct	8507		8566
Query	8567	TATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGC	8626
Sbjct	8567		8626
Query	8627	TATGACCAGGTACTCCGccccccccggggacccccACAACCAGAATACGACTTGGAGCT	8686
Sbjct	8627		8686
Query	8687	TATAACATCATGCTCCCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTA	8746
Sbjct	8687		8746
Query	8747	CTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACA	8806
Sbjct	8747		8806
Query	8807	CACTCCAGTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAG	8866
Sbjct	8807		8866
Query	8867	GATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGC	8926
Sbjct	8867	GATGATACTGATGACCCACTTCTTCAGTGTCCTCATAGCCAGGGATCAGCTTGAACAGGC	8926
Query	8927	TCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAAT	8986
Sbjct	8927	CCTTGATTGCGAAATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAAT	8986
Query	8987	CATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAAT	9046
Sbjct	8987	TATTCAAAGACTCCATGGCCTCAGCGCGTTTTCACTCCACAGTTACTCTCCAGGTGAAAT	9046
Query	9047	CAATAGGGTGGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACA	9106
Sbjct	9047	CAATAGGGTGGCCGCATGCCTCAGAAAACTTGGGGGTTCCGCCCTTGCGAGCTTGGAGACA	9106
Query	9107	CCGGGCCCGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGG	9166
Sbjct	9107	ccgggcccggagcgtccgcgctagacttctgtccagaggaggcaggc	9166
Query	9167	CAAGTACCTCTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9226
Sbjct	9167	CAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9226
Query	9227	TGGCCGGCTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCA	9286
Sbjct	9227	TGGCCGGCTGGACTTGTCCGGCTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCA	9286
Query	9287	CAGCGTGTCTCATGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTGCAGG	9346
Sbjct	9287	CAGCGTGTCTCATGCCCGGCCCCGCTGGTTCTGGTTCTGCCTACTCCTGCTTGCT	9346
Query	9347	GGTAGGCATCTACCTCCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAA	9406
Sbjct	9347	GGTAGGCATCTACCTCCCCAACCGATAAAGGTTGGGGTAAACACTCCGGCCTCTTAG	9406
Query	9407	GCCATTTCCTG: -tttttttttttttttttttttttttttttttttttt	9465

Score = 1.483e+04 bits (8028),

Strand=Plus/Plus

Query

Sbjct

Query

Sbjct Query

Sbjct

Query

Sbjct Query

Sbjct

Query

2112

2031

2172

2091

2232

2151

2292

2211

2352

2271

2412

Expect = 0.0

>emb|AX100563.1| Sequence 1 from Patent WO0121807 Length=9518

Identities = 8028/8028 (100%), Gaps = 0/8028 (0%)

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

2171

2090

2231

2150

2291

2210

2351

2270

2411

2330

2471

1572 ATCCAACTGATCAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAAT 1631 1491 1550 Sbjct 1632 GAAAGCCTTAACACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCA 1691 Query Sbjct 1551 1610 1692 GGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGT 1751 Query 1611 1670 Sbjct CCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGGCACTACCCT Query 1752 1811 CCTATCAGTTATGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGGCACTACCCT Sbjct 1671 1730  $\verb|CCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACT|\\$ 1812 1871 Query CCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACT 1731 1790 Sbjct 1872 1931 Query Sbjct 1791 1850 Query 1932 GCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTC 1991 1851 1910 Sbjct 1992 GGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTC 2051 Query Sbjct 1911 GGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTC 1970 2052 ATCGGAGGGGTGGCCAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCG 2111 Query Sbjct 1971 2030

GAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCCAGGTGCATGGTCGAC

GAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGAC

TACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGG

TACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGG

ATGTACGTGGGAGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAA

CGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACA

CAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATC

CACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCG

Sbjct	2331		2390
Query	2472	TCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTGCTTG	2531
Sbjct	2391		2450
Query	2532	GTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAAC	2591
Sbjct	2451	GTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAAC	2510
Query	2592	CTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2651
Sbjct	2511	CTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2570
Query	2652	TTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTC	2711
Sbjct	2571	TTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTC	2630
Query	2712	TACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTG	2771
Sbjct	2631	TACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATACGCACTG	2690
Query	2772	GACACGGAGGTGGCCGCGTCGTGGCGCGTTGTTCTTGTCGGGTTAATGGCGCTGACT	2831
Sbjct	2691	GACACGGAGGTGGCCGCGTCGTGGCGCGCTTGTTCTTGTCGGGTTAATGGCGCTGACT	2750
Query	2832	CTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTG	2891
Sbjct	2751	CTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTG	2810
Query	2892	ACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCCgggggggGCGC	2951
Sbjct	2811	ACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCCGGGGGGGG	2870
Query	2952	GATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACCAAA	3011
Sbjct	2871	GATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACCAAA	2930 3071
Query Sbjct	3012 2931	CTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCC	2990
Query	3072	TACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGA	3131
Sbjct	2991		3050
Ouerv	3132	GGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTAT	3191
Sbjct	3051		3110
Query	3192	AACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCT	3251
- Sbjct	3111		3170
Query	3252	GTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACC	3311
Sbjct	3171		3230
Query	3312	GCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCCAGGAGATA	3371
Sbjct	3231		3290
Query	3372	CTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACG	3431
Sbjct	3291	CTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACG	3350
Query	3432	GCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGG	3491
Sbjct	3351	GCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGG	3410
Query	3492	GACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTG	3551
Sbjct	3411	GACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTG	3470
Query	3552	GCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATC	3611

Sbjct	3471	GCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATC	3530
Query	3612	GCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGC	3671
Sbjct	3531	GCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGC	3590
Query	3672	TGGCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTT	3731
Sbjct	3591	TGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTT	3650
Query	3732	TACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGT	3791
Sbjct	3651	TACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGT	3710
Query	3792	AGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTG	3851
Sbjct	3711	AGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGGTCCGCTGTTG	3770
Query	3852	TGCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCT	3911
Sbjct	3771	TGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCT	3830
Query	3912	AAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTC	3971
Sbjct	3831	AAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTC	3890
Query	3972	ACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCT	4031
Sbjct	3891	ACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCT	3950
Query	4032	CCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAG	4091
Sbjct	3951	CCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAG	4010
Query	4092	GTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAG	4151
Sbjct	4011	GTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAG	4070
Query	4152	GCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCC	4211
Sbjct	4071	GCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCC	4130
Query	4212	ATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTAT	4271
Sbjct	4131	ATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTAT	4190
Query	4272	GACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4331
Sbjct	4191	GACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4250
Query	4332	ACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACTGCTACC	4391
Sbjct	4251	ACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACTGCTACC	4310
Query	4392	CCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACC	4451
Sbjct	4311	CCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACC	4370
Query	4452	GGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACAT	4511
Sbjct	4371	GGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACAT	4430
Query	4512	CTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTG	4571
Sbjct	4431	CTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTG	4490
Query	4572	GGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4631
Sbjct	4491	GGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4550
Query	4632	GATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCT	4691
Sbjct	4551	GATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCT	4610
Query	4692	GTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTT	4751

Sbjct	4611	GTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTT	4670
Query	4752	ACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGG	4811
Sbjct	4671	ACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGG	4730
Query	4812	ACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGC	4871
Sbjct	4731	ACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGC	4790
Query	4872	ATGTTCGACTCGTCCGTCCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTC	4931
Sbjct	4791	ATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTC	4850
Query	4932	ACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTG	4991
Sbjct	4851	ACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTG	4910
Query	4992	TGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5051
Sbjct	4911	TGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	4970
Query	5052	CACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAA	5111
Sbjct	4971	CACTTTTTATCCCAGACAAAGCAGAGTGGGGGAGAACTTTCCTTACCTGGTAGCGTACCAA	5030
Query	5112	GCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGT	5171
Sbjct	5031	GCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGAACCAGATGTGGAAGTGT	5090
Query	5172	TTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCT	5231
Sbjct	5091	TTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCT	5150
Query	5232	GTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5291
Sbjct	5151	GTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5210
Query	5292	GCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTG	5351
Sbjct	5211	GCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTCTCTG	5270
Query	5352	GCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGG	5411
Sbjct	5271	GCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGG	5330
Query	5412	AAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAG	5471
Sbjct	5331	AAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAG	5390
Query	5472	TGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAG	5531
Sbjct	5391	TGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAG	5450
Query	5532	AAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTC	5591
Sbjct	5451	AAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTC	5510
Query	5592	CAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGT	5651
Sbjct	5511	CAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGT	5570
Query	5652	GGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTG	5711
Sbjct	5571	GGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTG	5630
Query	5712	ATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAAC	5771
Sbjct	5631	ÁTGGCTTTTACÁGCTGCCGTCÁCCÁGCCCÁCTAÁCCÁCTGGCCÁÁACCCTCCTCTAÁC	5690
Query	5772	ATATTgggggggTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTG	5831
Sbjct	5691	ATATTGGGGGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTG	5750
Query	5832	GGTGCTGGCCTAGCTGGCCCCCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGAC	5891

Sbjct	5751	GGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGAC	5810
Query	5892	ATTCTTGCAGGGTATGGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGC	5951
Sbjct	5811	ATTCTTGCAGGGTATGGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGC	5870
Query	5952	GGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGA	6011
Sbjct	5871	GGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGA	5930
Query	6012	GCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAG	6071
Sbjct	5931	GCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAG	5990
Query	6072	GGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCC	6131
Sbjct	5991	ggggcagtgcaatggatgaaccggctaatagccttcgcctcccgggggaaccatgtttcc	6050
Query	6132	CCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGC	6191
Sbjct	6051	CCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGC	6110
Query	6192	CTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACT	6251
Sbjct	6111	ĊŢĊĸĊŢĠŦĸĸĊĊĸĠĊŢĊĊŢĠĸĠĠĊĠĸĊŢĠĊĸŢĊĸĠŢĠĠĸŢĸĸĠĊŢĊĠĠĸĠŢĠŢĸĊĊĸĊŢ	6170
Query	6252	CCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGAC	6311
Sbjct	6171	CCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGAC	6230
Query	6312	TTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCC	6371
Sbjct	6231	TTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCC	6290
Query	6372	TGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCAC	6431
Sbjct	6291	TGCCAGCGCGGGTATAGGGGGGTCTGGCCGAGGAGACGCATTATGCACACTCGCTGCCAC	6350
Query	6432	TGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGG	6491
Sbjct	6351	TGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGG	6410
Query	6492	ACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGT	6551
Sbjct	6411 6552	ACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGT  ACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATAC	6470 6611
Query Sbjct	6471	ACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATAC	6530
Query	6612	GTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACAATCTT	6671
Sbjct	6531		6590
Query	6672	AAATGCCCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTA	6731
Sbjct	6591		6650
Query	6732	CACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGA	6791
Sbjct	6651		6710
Query	6792	CTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTG	6851
Sbjct	6711		6770
Query	6852	TTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTG	6911
Sbjct	6771	TTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTG	6830
Query	6912	GCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCT	6971
Sbjct	6831		6890
Query	6972	CTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAAC	7031

Sbjct	6891		6950
Query	7032	CTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTG	7091
Sbjct	6951		7010
Query	7092	GTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTA	7151
Sbjct	7011		7070
Query	7152	CCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGG	7211
Sbjct	7071	CCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGG	7130
Query	7212	CCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTG	7271
Sbjct	7131	CCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTG	7190
Query	7272	GTCCATGGCTGCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCCGCCTCGGAAAAAG	7331
Sbjct	7191	gtccatgcttgcccgctaccacctccacggtcccctctgtgcctccgcctcggaaaaag	7250
Query	7332	CGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACAAA	7391
Sbjct	7251	ĊĠŦŔĊĠĠŦĠĠŦĊĊŦĊŔĊĊĠŔŔŦĊŔŔĊĊĊŦŔŦĊŦŔĊŦĠĊĊŦŦĠĠĊĊĠŔĠĊŦŦĠĊĊŔĊŔŔŔ	7310
Query	7392	AGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAG	7451
Sbjct	7311	AGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACAACATCCTCTGAG	7370
Query	7452	CCCGCCCTTCTGGCTGaaaaaaaCTCCGACGTTGAGTCCTATTCTTCCATGaaaaaa	7511
Sbjct	7371	CCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCC	7430
Query	7512	TGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGT	7571
Sbjct	7431	CTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGT	7490
Query	7572	GGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTC	7631 7550
Sbjct Query	7491 7632	GGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGACAGGCGCACTC GTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTG	7691
Sbict	7551	GTCACCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACTGTTG  GTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTG	7610
Query	7692	CTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAG	7751
Sbjct	7611		7670
Query	7752	AAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAG	7811
Sbjct	7671		7730
Query	7812	GTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGC	7871
Sbjct	7731		7790
Query	7872	CTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGC	7931
Sbjct	7791		7850
Query	7932	CATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGT	7991
Sbjct	7851		7910
Query	7992	GTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAG	8051
Sbjct	7911		7970
Query	8052	AAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGC	8111
Sbjct	7971	AAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGC	8030
Query	8112	GAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCC	8171

Sbjct	8031	GAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCC	8090
Query	8172	TACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCC	8231
Sbjct	8091	TACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCC	8150
Query	8232	AAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAG	8291
Sbjct	8151	AAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAG	8210
Query	8292	AGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGC	8351
Sbjct	8211	AGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGC	8270
Query	8352	GTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGG	8411
Sbjct	8271	GTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGG	8330
Query	8412	GGGGAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAACTAGCTGTGGT	8471
Sbjct	8331	GGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGT	8390
Query	8472	AACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGAC	8531
Sbjct	8391	AACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGAC	8450
Query	8532	TGCACCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAG	8591
Sbjct	8451	TGCACCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAG	8510
Query	8592	GAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCCC	8651
Sbjct	8511	GAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCC	8570
Query	8652	ggggacccccaCAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTG	8711
Sbjct	8571	GGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTG	8630
Query	8712	TCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACC	8771
Sbjct	8631	TCAGTCGCCCACGACGGCGCTGGAAAGAGGGGTCTACTACCTTACCCGTGACCCTACAACC	8690
Query	8772	CCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGC	8831
Sbjct	8691	CCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGC	8750
Query	8832	AACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTT	8891
Sbjct	8751	AACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTT	8810
Query	8892	AGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCC	8951
Sbjct	8811	AGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCC	8870
Query	8952	TGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGC	9011
Sbjct	8871	TGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGC	8930
Query	9012	GCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGA	9071
Sbjct	8931	GCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGA	8990
Query	9072	AAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGG	9131
Sbjct	8991	AAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGG	9050
Query	9132	CTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTA	9191
Sbjct	9051	CTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTA	9110
Query	9192	AGAACAAAGCTCAAACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCGGTTGG	9251
Sbjct	9111	AGAACAAAGCTCAAACTCACTCCAATAGCGGCCGGCTGGCCGGCTGGACTTGTCCGGTTGG	9170
Query	9252	TTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGCCCCGC	9311

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9171
                                           9230
Sbjct
       9312
                                           9371
Query
Sbjct
    9231
                                           9290
       9431
Query
    9372
       9291
       Sbjct
                                           9350
Query
    9432
       9491
       Sbjct
    9351
                                           9410
    9492
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                                           9551
Query
       9411
                                           9470
Sbjct
    9552
       \tt CCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT
Query
       9471
                                    9518
Sbjct
Score = 2752 \text{ bits } (1490),
               Expect = 0.0
Identities = 1490/1490 (100%), Gaps = 0/1490 (0%)
Strand=Plus/Plus
   1
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                                           60
Query
       1
       GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
                                           60
Sbjct
       61
Query
       ŤĊŤŤĊÁĊĠĊÁĠÁÁÁĠĊĠŤĊŤAĠĊĊĂŤĠĠĊĠŤŤAĠŤÁŤĠAĠŤĠŤĊĠŦĠĊAĠĊĊŤĊĊAĠĠAĊ
                                           120
Sbjct
    61
Query
    121
       GGGGGGTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
                                           180
       Sbjct
    121
                                           180
    181
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                                           240
Query
       GÁCGÁCCGGGTCCTTTCTTGGÁTÁÁACCCGCTCÁÁTGCCTGGÁGÁTTTGGGCGTGCCCCC
    181
                                           240
Sbjct
Query
    241
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                                           300
       Sbjct
    241
                                           300
Query
    301
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                                           360
       301
                                           360
Sbjct
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Query
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Sbjct
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Query
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                                           540
Query
       481
                                           540
Sbjct
Query
    541
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                                           600
       541
                                           600
Sbjct
Query
    601
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                                           660
       601
                                           660
Sbjct
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                                           720
    661
Query
       Sbjct
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721
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Query
        Sbjct
    721
        CGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCG
                                                  780
        \verb|CTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAG|
    781
Query
                                                  840
        781
                                                  840
Sbjct
    841
Query
        GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG
                                                  900
        GGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTG
                                                  900
Sbjct
    841
    901
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                                                  960
Query
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Sbjct
    901
                                                  960
    961
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                                                  1020
Query
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    961
                                                  1020
    1021
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Query
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    1021
                                                  1080
Sbjct
    1081
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                                                  1140
Query
        1081
                                                  1140
Sbjct
    1141
        1200
Query
        1141
        1200
Sbjct
        TTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTT
    1201
                                                  1260
Query
        1201
                                                  1260
Sbjct
Query
    1261
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                                                  1320
        Sbjct
    1261
                                                  1320
        \tt CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA
                                                  1380
Query
    1321
        CCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACA
    1321
                                                  1380
Sbjct
        TGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGA
Query
    1381
                                                  1440
        1381
                                                  1440
Sbjct
Query
    1441
        ACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGCGTCGACGCG
        Sbjct
>dbj|BD426989.1| METHODS FOR CULTURING HCV IN EUKARYOTIC CELLS
Length=9185
Score = 1.482e+04 bits (8027), Expect = 0.0 Identities = 8806/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Plus
    23
        CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG
                                                  82
Query
        1
                                                  60
Sbjct
        Query
    83
                                                  142
                                                  120
Sbjct
    61
Query
    143
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                                                  202
        GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA
                                                  180
Sbjct
    121
        TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT
    203
                                                  262
Query
          TCAACCCGCTCAATGCCTGGAGATTTGGGCCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT
Sbjct
    181
                                                  240
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Query	263	GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	322
Sbjct	241	gttgggtcgcgaaaggccttgtggtactgcctgatagggtgcttgcgagtgccccgggag	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	442
Sbjct	361	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	420
Query Sbict	443 421	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502 480
Query	503	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG	562
Sbjct	481		540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541		600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	660
Query	683	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	taggtcgcgcaatttgggtaaggtcatcgatacccttacgtgcggcttcgccgacctcat	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCCCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCCCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct Query	781 863	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT  CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	840 922
Sbjct	841		900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901		960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961	cgaggcggccgargccarccrgcacactccggggrgcgrcccrrgcgrrcgrgagggcaa	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACAGGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081 1163	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGC  CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1140 1222
Query Sbjct	1141	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTA	1282
Sbjct	1201		1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261		1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321		1380

Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	ġĊŦĠĊŦĠĊŦaŦŦŦĠĊĊĠĠĊĠŦĊĠaĊĠĊĠĠaaaĊĊĊaĊĠŦĊaĊĊĠĠĠĠaagŦĠĊĊĠĠĊĊa	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT	1582
Sbjct	1501	ĊĂĊŦĠŦĠŦĊŤĠĠAŦŤŤĠŤŤAĠĊĊŤĊĊŤĊĠĊĂĊĊĂĠĠĊĠĊĊĂĂĠĊĀĠĂŔĊĠŤĊĊŔĠĊŤĠŔŤ	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801	CGGTATTGTGCCCGCGAAGAGTGTGTGTGGTCCGGTATATTGCTTCACTCCCAGCCCCGT	1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCCCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921	GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	1980
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACACCCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2100 2182
Query Sbjct	2123		2162
Query	2101	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCATTACACCATATTCACAGTCAGGATGTACGTGGG	2242
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221		2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281		2340
Query	2363	CCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341		2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401		2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTCTGCTTGCAGACGCGCGCG	2542
Sbjct	2461		2520

supers         2543         CTHEREGATGATCTTACTCATATCCCAACCOGGCCTTTGGGGAACCTCGTAATATC         2580           Spice         2521         CTHEREGATGATCCATATCCCAACCOGGGCCTTTGGGGAACCTCGTAATATC         2580           Query         2603         CAATGAGCATCCCTGGCCGGGGCCATCGGCCTTTGGTGTTCTTCTCTTCTTCTTCTTCTTCTCTTCT				
Spic         251         CTTGTGGGTGATGCTACTCATATCCCAAGGGGGGCTTTGGAGAACCTCGTATATCT         2580           Query         2603         CAATGCAGCATCCCTGGCGGGGAGGCACGGTCTTGGTGTCTTCTCTGGTT         262           Spic         2581         TAATGCAGCATCCCTGGCCGGAGGGGGGGTCTTGGTGTCTTTGTGTT         262           Guery         2663         TGCTGGTATTCTCAAGGGTAGGTGGGTGGCCCGAGGGGTTAGCCCCTTCACGGAGTGT         270           Spic         2611         TGCATGGTATTCAAGGGTAGGTGGGTGCCCGAGGGGTACACCCCTGACACCGGGGGT         270           Query         2723         GGCCTCCCTCCTCCTGCTGGTGGGTTGCCCCAGCGGGGATAGCACCTGGACACGAGGT         278           Spic         2761         GGCCTCCCTCCTCCTGCTGGTGGTTCTCCCCCAGCGGGGTATAGCCCCTGGACACGAGGTAG         278           Bjct         2761         GGCCGCTCGTTGTGTGTTTCTTCTCCCCAGCGGGTTAATCCAGCTGCACACAGGGGG         276           Query         2783         GGCCGCTCTTTTCAGCGGTTTTCTCTCTGGGTTTATTTCTCAGCAGACTGAG         282           Sbjct         2811         TTACAAGCCTATATCAGCTGGTTTTCCTCAGTTTTTCTCAGTGACTTTTTTCTCAGCAGAGTGAG         282           Sbjct         2812         TTACAAGCCCTATATCAGCTGGGTTTCCCCACCTCAAGTTCTGATTTTTTCTCACCAGAGTGAG         286           Sbjct         2813         ATACCAAGCCGTTGGTTTCCCCACCTCTATTTTTTTCTCAGGTTTTTTTT	Query	2543		2602
Sheet         2881         TAMTGCAGCATCCCTGGGCGGGAGGCAGGTCTTGTTACCTCTCTCT	Sbjct	2521		2580
Sbjet         2581         TAMEGAGCATCCTGGCGGGGGCCCGGGGGTCTTGGTCTTCTGTGTTTTCTGTTTTTCTGTTTTTCTGTTTTTT	Query	2603		2662
Spic         2641         TGCARGGTTATTGGAGGGTAGCTGGGTCCCGGAGCGGTCTACACGTGTTACGGGAGT         2700           Query         2723         GCCTCTCCTCCTGCTCTGCTGGTGGCTTGCCTCAGCGGGGTTACTGCGACACGGAGGT         2782           Sbjet         2701         GCCTCTCCTCCTGCTGCTGCTGGTGCCTGAGCGGGGTACAGCACTGGACACGGAGGT         2760           Query         2783         GGCCGCGTCGTGGCGGGTGTTCTTGTGCGGGTTATTGGCGCTGACCGGACCGACACCATA         2842           Sbjet         2761         GGCCGCCTCGTGGCGGTGTTTCTTGTGGTGGGTTATCGCGCTGACCCATCTCACCATA         2820           Query         2843         TTACAAGCCGTATATCAGCTGGTGGTGGTGGGTGGCTTGATGCGTTGACCACACACTCCACAGAGTGCA         2880           Query         2903         AGGGCAACTCCACGTGGGGTTTCGCGTTGTGTTTTGTGTCCTCAGGAGGGGGGAGCCCGTCAT         2940           Query         2963         CTTACTCATGTGTGT-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCTGGG         3921           Sbjet         2961         CTTACTCATGTGTGT-TAGTACACCCGACCTTGGTATTTGCATCACCAAAATTCCTGTGG         3929           Query         3022         CCAACTCTCAGTGTGTC-TGACACCCGACTTGGTTTTTGCAACCCAAATTCTTCTGC         3081           Sbjet         3100         CCGTCTAAGGCCTTTTGGATTCTTCAAGCCGGTTAGCGGAAGAT-AGCCGAGGGCATTAC         3116           Sbjet         3119         AGCCGACTAAGGCCTTTCCGGTTTGGCGCTTACTGGGGGAAGATGATCCTTGGGCTTTTAACCATCT         3120           Sbjet         3119         ACCC	Sbjct	2581		2640
Query         2723         GCCTCTCCTCCTGCTGCTGGGGTTGCCTGAGGGGGGATACGGACAGGAGAGGGGGGT         2782           Sbjet         2701         GCCTCTCCTCTGTGGGGTTGCCCAGGGGGGTACCGGGACAGGAGAGGGGGGGG	Query	2663		2722
Sbjet         2701         GCCCTCCTCCTGTTGGGTGCCCCAGGGGCTGACGGGGTGACGAGGT         2760           Query         2783         GCCCGCTCGTGGCGCGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCCCATA         2842           Sbjet         2761         GCCCGCTGTGTGCGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCCCATA         2820           Query         2843         TTACAAGCGCTATATCAGCTGGTGCTTGTGTGTGGTGGTTCATATTTTCTGACCAGAGTAGA         2902           Sbjet         2821         TTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGTGCTTCAGTATTTTCTGACCAGAGTGA         2860           Query         2903         AGGCCAACTGCACGTGTGGTTCCCCCCCTCAACCTCCGAGGGGGGCGCGACCCCTCAT         2962           Sbjet         281         AGGCCAACTGCACGTGTGGATTCCCCCCCTCAACCTCGGAGGGGGCCCCAACCCCTCAT         2940           Query         293         AGGCCAACTGCACGTGTGGATTCCCCCCCTCAACCTCGGAGGGGGCCCCAACCCCTCAT         2940           Query         2940         CTATACTCATGTGTG-TAGTACACCCCACCTTGGTATTTGAACCACAACTACCCCAACTCCCTGTA         2920           Query         3022         CCAACTTCCAGACCCTTTGGATTCTTCAACCCCGATTTCCTTAAAGTACCCACACTTCTTCTGTGC         3021           Sbjet         3000         CCGTCTTCCGGACCCTTTGGATTCTTCAACCCAGCTTTCCTTTAAAGTACACCACATTCTTCTTTTTTTT	_	2641	TGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query         2783         GCCCGCTCGTGTGGGGGCGTTGTTCTTGTCGGTTAATGGCGCTGACTCTGTCGCCATA         2842           Sbjet         2761         GGCCGGTGTGTGGGGGGTTGTTCTTCTGCGGTTAATGGCGCTGACTCTGTCACCATA         2820           Query         2843         TTACAAGCGCTATATCAGCTGGTGCATGTGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA         2902           Sbjet         2821         TTACAAGCGCTATATCAGCTGTGCTTGTGTGTGGTGGCTTCAGAATTTTCTGACCAGAGTAGA         2880           Query         2903         AGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCCAGAGTGCGCAGCCGCCACC         2962           Sbjet         2881         AGCGCAACTGCACGTGGATTCCCCCCCTCAACGTCCAGAGGGGCGCAGCCCCCTCAT         2940           Query         2963         CTTACTCATGTGTG-TAGTACACCCGACCCTTGGTATTTGACATCACCAAACTACTCCTGG         2929           Query         3022         CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTC         3081           Sbjet         3000         CCGTCTCAAGGCCTTTCCCGGTTCTGCCGCGTTAGCGCGGAAGAT-AGCCGAGGTCATTAC         3140           Sbjet         3119         GCGCTCAAAGGCCTTCCCGGTTCTGCCGCGTTAGCGCGGAAGATGATC-GAGGCCCTATTTGTTAAACCATCT         3120           Sbjet         3119         GCGCTCAAAGGCCTTCCCGGTTCTGCCGCTTAGCGCGGAAAGTGATCCCCGAGGGCCATTAC         3178           Query         3121         GTGCAAATGGCTCAACTAGTAAGGGCCCTAACGGCCTTAGGCCCAACGTTGTGTTATAACCATCC         3220           Sbjet         319         <	Query	2723		2782
Sbjet         2761         GGGCGCTCGTGTGGGGGGTTGTTTCTGTCTGCGGGGTTGATTGA	_	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	
Query         2843         TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA         2820           Sbjct         2821         TTACAAGCGCGTATATCAGCTGGTGTGCTTGGTGTGGTTTTTTCTGACCAGAGTGGA         2880           Query         2903         AGCGCAACTGCACGTGTGGGTTCCCCCCTCAACGTCCGGGGGGCCGGCATCACCCCCCCC	_			-
Sbjet         2821         THILLING         1888           Query         2903         AGGGGAACTGCACGTGTGGGTTCCCCCTTCAACGTCCGGGGGGGCGCGTCAT         2962           Sbjet         2881         AGGGGAACTGCACGTGTGGGTTCCCCCCTCAACGTCCGGGGGGGCGGCGCGTCAT         2940           Query         2963         CTTACTCATGTGTG-TAGTACACCCGACCTGGTATTTGACATCACCAAACTACTCCTGG         2929           Sbjet         2941         CTTACTCATGTGTG-TAGTACACCCGACCTGTATTTGACATCACCAAACTACTCGTGC         2999           Query         3022         CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCACCTACTTCGTGC         3081           Sbjet         3000         CCGTTCTGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC         3059           Query         3022         GCGTTCAAGGCCTTCTCCCGGATCTGCAGCGCGTTACCTGAAGGTACTGAGGGCAATTAC         3140           Sbjet         3000         CCGTTCCAAGGCCTTCCCCGGATCTGCCGCGTTACTGGCACCTATGTGTATAACCATCTC         3161           Sbjet         3161         GTGCAAATGGCCATCATCAAGGTTGGCCGTTACTGGCACCTATGTGTATAACCATCTC         3178           Query         3141         GTGCAAATGGCATCATCAAGGTTGGCGCTTACTGGCCCTTAGTGTATATTATAACTAAC	_		GGCCGCGTCGTGGCGGTGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTCACCATA	
Query         302         AGGCGAACTGCACGTTGGGGTTCCCCCCCTAACGTCCGGGGGGGG	_			
Sbjet         2881         AGGGCAACTGCAACTGCCACGTCCAACGTCCGAAGGGGGGGG	_			
Query2963CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG3021Sbjet2941CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAACTACTCCTGGG2999Query3022CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC3081Sbjet3000CCGTCTTCAGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC3059Query3082GCGTTCAAGGCCTTCTCCCGGATCTGCGCGCTAAGCGCGGAAGATAAGCCAGCTATAC3140Sbjet3060GCGTCCAAGGCCTTCTCCCGGTTTGCGCGTTAGCGCGGAAGATTAAGCCATCTC318Query3141GTGCAAATGGCCATCATCAAGTTAAGGTGCGCGTAAGCACCATATGTGTATAAACCATCTC3178Query3119GTGCAAATGGCCATCATCATGAGTTAGGGGCGCTTACTGGCACCTATGTGTATAAACCATCTC3178Query3201ACCCCTCTTCGAGACTGGGCGCACAAACGGCCTTACTGGGCACCTATGTTTATAACCATCTC3178Sbjet3179ACTCCTCTTCGGGACTGGGCGCACAACGGCCTGGAGATTGGCCGTGGGCTGGAACCA3238Query3261GTCGTCTTCTCCCGAATGGAGCACAACGGCTTGCGAGATTCGGCCGTGGCTGTAGAGCCA3238Sbjet3239GTGGTCTTCTCCCGAATGGAGCCACAACGGCTTCACCATGGGGGGCAGGAATACCGCCGGTGC3298Query3321GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACCGCCGGTGC3298Query3381CCAGCCCAAGGAATGGTCTCCAAATGGAGCCTGCCCGTTGCCGCGAGGAGATACCGCCGTGCC3440Sbjet3359CCAGCCCAATGGAATGGTCTCCAAGGGGTGAGGGTTGCTGGCGCCCAATCACGGGGTACGCC3440Sbjet3419CCAGCCCAATGGAATGGTCTCCAAGGGGTGAGGTTGCTGCCCCCAAGGGAGATACCGCCCGGGACAAAAAC3500Sbjet3419CAGCAGACAAGGGGCCTCCTTAGGGTGTATAATCACCAGCCTGACTGCCCCGAGGACAAGACC3560Sbjet	_			_,,,
Sbjet 2941 CCTTACTCATGGGCT-GTACACCCGACTCTGGTATTTGACATCACCTGG 2999 Query 3022 CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTTACTTGGTGC 3081 Sbjet 3000 CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCCTACTTTGGTG 3059 Query 3082 GCGTTCAAGGCCACTTTGGATTCTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGGC 3059 Sbjet 3060 GCGTCCAAGGCCTTCTCCCGGTTCTGCGCCGTAGCGCGGAAGAT-AGCCGGAGGTCATTAC 3118 Query 3141 GTGCAAATGGCCATCATCAAGTTAGGGGCGGTAAGCACCTAAGTGTATAAACCATCC 3200 Sbjet 3119 GTGCAAATGGCCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCC 3178 Query 3201 ACCCCTCTTCGGGACTGGGCGCACAACGGCCTTGCGCACCTATGTTTATAACCATCC 3178 Query 3201 ACCCCTCTTCGGGACTGGGCGCACAACGGCCTTGCGCACCTATGTTTATAACCATCC 3208 Sbjet 3179 ACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGCACCTATGTTTATAACCATCC 3208 Query 3261 GTCGTCTTCTCCCGAATGGGACCAACGGCTTGCGCAGGATCTGGCCGTGGACCA 3238 Query 3261 GTCGTCTTCCCCGAATGGAGCCAACGGCTTGCACCAGGGGGGGAGAATACCGCCCGGTGC 3320 Sbjet 3239 GTCGTCTTCTCCCGAATGGAGCCAACGGCTTGCACCAGGGGGGGAGAATACCGCCCGGTGC 3298 Query 3321 GGTGACATCATCAACGGCTTGCCCGTCTCTCCCCGTAGGGGGCAGATACCGCCCGGTGC 3380 Sbjet 3299 GTCGTCTTCTCCCAAATGGAGCCAACGCCTACCACGGGGGGCAGATACCGCCCGGTGC 3358 Query 3381 CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGGGCAGAAACCGCCATCACGGGGGACAAAACC 3440 Sbjet 3359 CAGCCGACGGAATGGTCTCCAAGGGGTGGAGGGCCAAGGAGAAACCGCCAACGGCTTACGGCCGAACGGCCTACACGGCGTACGCC 3448 Sbjet 3359 CAGCCGAACGAGAGGCCTCCTAAGGGGTGGAGGTTGCTGGCCGAACACGCCTAACCGGCTACCCC 3440 Sbjet 3419 CAGCAGACAAGAGGCCTCCTAAGGGGTGGAGGAGATACTGCTCGGG 3558 Query 3561 ACAATGGGAGGCCCCCAAGGGGCCAACAACCTCCCCAACCCTAACCGGCGAAAAAC 3478 CAGCAGCGAAGAGGGCCCCCAAGGGGGCCAACAACCTCCCAACCCTAACCGGCCAACACGCCTAACCGGCCAACACGCCTAACCGGCCGAACAAACC 3550 Sbjet 3479 CAAGTGGAGGGCCAAGAGGCCAACACGCCTAACCGGCCAACCAA	_			_, _,
Query         3022         CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC         3059           Sbjet         3000         CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC         3059           Query         3082         GCGTTCAAGGCCTTCTCCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGGAGGCCATTAC         3140           Sbjet         3060         GCGTCCAAGGCCTTCTCCCGGTTCTGCGCGTTAGCGCGGAAGATCATC-GGAGGCCATTAC         3118           Query         3141         GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCT         3200           Sbjet         3119         GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCT         3178           Query         3201         ACCCCTCTTCGAGACTGGCGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGGAACCA         3260           Sbjet         3179         ACCCCTCTTCGAGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTGAACCA         3238           Query         3261         GTCGTCTTCTCCCGAATGGAGACCAACGGCTTGCCAGACTTGGCCGTGGCTGTGAACCA         3238           Query         3321         GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGGTGC         3298           Query         3321         GGTGACATCATCAACGGCTTGCCTGTTTCCCCTGCCCGTAGGGCCCAGAGAATACTGCTCGGG         3358           Query         3321         CCAGCCGACGAATGGTCTCCAAGGGTGGAGGTTGCTGCCCGTACGGCCCCATCACGGCGTACGCC         3410           Sbjet         3359         CCAGC	_			
Sbjet 3000 CCGCTCTCGGACCCCTTGGATTCTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC 3059 Query 3082 GCGTTCAAGGCCTTCTCCGGATCTGCGCGGGAAGATACCGCGAAGGCCATTAC 3140 Sbjet 3060 GCGTCCAAGGCCTTCTCCGGTTCTGCGCGCTTAGCGCGGAAGATGATC—GAGGGGAGGCCATTAC 3118 Query 3141 GTGCAAATGGCCATCAAGTTAGGGGCGGTTAGCGCGCACCTATGTGTATAACCATCTC 3200 Sbjet 3119 GTGCAAATGGCCATCAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC 3178 Query 3201 ACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGGAACCA 3238 Query 3261 GTCGTCTTCCCGGATGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTAGACCA 3238 Query 3261 GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGGGCGC 3298 Query 3321 GGTGACATCAACAGGGCTTGCCGGCTCCCGCGAGATCTGCCCGGCGCGC 3298 Query 3321 GGTGACATCAACAGGCTTGCCCGTCCCCGCAGGGGCCGAGATCCGCCGCGGC 3298 Query 3381 CCAGCCGACAACGGCTTGCCCGTTCCCCGAAGGGCCAGAACCGCCGCGGC 3358 Query 3381 CCAGCCGACGAACGGCTTCCCCGCCGCAGGGGCCGAGAACCGCCGCGC 3440 Sbjct 3359 CCAGCCGACGAATGGTTCCCAAGGGGTGGCGGAGGTTGCTGGGGGGCCCATCACGGCTACGCC 3418 Query 341 CAGCAGAGAGAGACCAAGGTTGCCCGCCGCCGCCCCCCCC	_	-		_,,,
Query3082GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTTAGCGCGGAAGAT-AGCCGGAGGTCATTAC3140Sbjet3060GCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATCTGCTCGGAGGCCATTAC3118Query3141GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC3200Sbjet3119GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC3178Query3201ACCCCTCTTCGAGACTGGGCGCACAACGGCTGCGAGAATCTGGCCGTGGGTGTGGAACCA3260Sbjet3179ACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTGGAACCA3238Query3261GTCGTCTTCTCCCGAATGGAGACCAAGCTCTATCACTGGGGGGGAGATACCGCCGGTGC3238Sbjet3239GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCTGC3298Query3321GGTGACATCATCAACGGCTTGCCCGTCTTGCCCGTAGGGGCCAAGAATACTGCTTGGG3380Sbjet3229GGTGACATCATCAACGGCTTGCCCGTCTTCCCCCATAGGGGCCAAGAATACTGCTTGGG3380Query3381CCAGCCGACGAATGGTCTCCAAGGGGTGAAGGTTCTCGCCCGTAGGGGCCAGGAGATACTGCTCGGG3380Query3381CCAGCCGACGAATGGTCTCCAAGGGGTGAAGGTTCTGCCCGCTACACGGCGGAATACTGCTCGGG3440Sbjet3359CCAGCCGATGGAATGGTCTCCAAGGGGTGAAGGTTCTGGCCGCCCCAACACGGCGTACGCC3418Query341CAGCAGACAGAGGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC3500Sbjet3419CAAGTGGAGGGTGAGGTCCAAGTGTGTCAACTGCTACCCAAACCTTCCTGGCAACAGTGC3560Sbjet3479CAAGTGGAGGGTGAGGTCCAGATCGTGTCACACGCCCAAACCTTCCTGGCAACCTGC3538Query3561AACAATGGGGTATGCTGGACTGTCTACCACGGGGCCGAAACGAGCACATCGCATCACCC3598Sbjet3539<	_			
Sbjet 3060 GCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC 3118  Query 3141 GTGCAAATGGCCATCATCAAGTTAGGGGGCCATTACTGGCACCTATGTTATAACCATCT 3200  Sbjet 3119 GTGCAAATGGTCATCAAGTTAAGGTTAGTGGCACCTATGTTTATAACCATCT 3178  Query 3201 ACCCCTCTTCGAGACTGGCGCACAACGGCCTGCGAGATCTGGCCACCTATGTTATAACCATCT 3178  Sbjet 3179 ACTCCTCTTCGGGACTGGGCGCACAACGGCTGCGAGATCTGGCCGTGGCTGTGGAACCA 3260  Sbjet 3179 ACTCCCTTCTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTGGAACCA 3238  Query 3261 GTCGTCTTCTCCCGAATGGAGACCAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA 3228  Sbjet 3239 GTCGTCTTCTCCCCAAATGGAGACCAACGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC 3298  Query 3321 GGGACATCATCAACGGCTTGCCCGTTCTGCCCGTTAGGGGGAGATACCGCCGCGTGC 3298  Sbjet 3299 GGTGACATCATCAACGGCTTGCCCGTTCTCTGCCCGTAGGGGCCAGGAGATACCGCCGCGTGC 3380  Query 3381 CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGGGGGAGATACTGCTTGGG 3380  Query 3441 CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC 3440  Sbjet 3359 CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCCATCACCGCGTACGCC 3418  Query 3441 CAGCAGACAAGGGCTCCTAAGGGGTGAGGTTGCTGGCGCCCCATCACCGCGTACGCC 3418  Query 3441 CAGCAGACAAGGGCTCCTAAGGGTGAATAATCACCAGCCTGACTGGCCCGAACAAAAC 3500  Sbjet 3419 CAAGCAGACAAGGGCTCCTAAGGGTGAATAATCACCAGCCTGACTGGCCCGAACAAAAAC 3478  Query 3501 CAAGTGGAGGGCTCCTAAGGGTGAATAATCACCAGCCTGACTGCCCGGAACAAAAAC 3478  Query 3501 CAAGTGGAGGGTCAGATCGTTCAACTGCTCCCAAACCTTCCTGGCAACGTGC 3560  Sbjet 3479 CAAGTGGAGGTCCAAGTGTGTCAACTGCTCCCAAACCTTCCTGGCAACGTGC 3588  Query 3561 ATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCCGGAACAACCTTCCTGGCAACGTGC 3588  Query 3561 ATCAATGGGGTATGCTGGACTGTCTACCAAGGGGCCGGAACGAGGACCATCGCATCACCC 3620  Sbjet 3539 ATCAATGGGGTTACCAAGTGTCTCACCAGGGGCCGGAACGAGGACCATCGCCC 3598  Query 3621 AAGGGTCCTGTACCAAATGTGTCAACCAGGCCGGAACGAGGACCATCGCCCC 3598	_			
Query3141GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC3200Sbjet3119GTGCAAATGGTCATCAATAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC3178Query3201ACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGTGGAACCA3260Sbjet3179ACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGATTGGCCGTGGCTGTGAGACCA3238Query3261GTCGTCTTCTCCCGAATGGAGCAAGCTCATCACGTGGGGGGGCAGATACCGCCGCGTGC3320Sbjet3239GTCGTCTTCTCCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC3298Query3321GGTGACATCAACACGCTTGCCCGTCTCTCCCCGTAGGGGCCAGGATACCGCCGCGTGC3380Sbjet3299GGTGACATCAACACGGCTTGCCCGTCTCTCCCCGTAGGGGCCAGGAGATACTGCTCGGG3358Query3381CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC3440Sbjet3359CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC3418Query3441CAGCAGACGAAGGGTCTCCTAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC3418Query3441CAGCAGACGAAGGGCTCCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC3500Sbjet3479CAAGTGGAGGTGGGGTCCAGATCGTCCAAGGGTGCAACACCTTCCTGGCAACGTGC3560Sbjet3479CAAGTGGAGGTGAGGTCCAGATCGTCAACTGCTCACCCAAACCTTCCTGGCAACGTGC3538Query3561ATCAATGGGGTGAGGTCCAGATTGTCAACTGCGGGCCGGAACGAGGACCATCGCCCAACCTTCCTGGCAACCTTCCTGGCAACGTGC3598Query3621ATCAATGGGGTTAGCTGGACTGTCTACCACAGGGGCCGGAACGAGGACCATCGCCCCC3598Query3621ATCAATGGGGTTAGCTGGACTGTCTACCACAGGGGCCGGAACGAGGACCATCGCCCCC3598	_			
Sbjet 3119 GTGCAAATGGTCATCATTAGGTGGCGCTTACTGGCACCTATGTTTATAACCATCTC 3178  Query 3201 ACCCCTCTTCGAGACTGGCGCACAACGGCCTGGCAGATCTGGCCGTGGGAACCA 3260  Sbjet 3179 ACTCCTCTTCGGGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCAGCACA 3238  Query 3261 GTCGTCTTCTCCCGAATGGAGACCAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA 3238  Sbjet 3239 GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC 3320  Sbjet 3239 GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCCAGATACCGCCGCGTGC 3298  Query 3321 GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGATACCGCCGCGTGC 3380  Sbjet 3299 GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGAGATACTGCTTGGG 3380  Sbjet 3299 GGTGACATCATCAACGGCTTGCCCGTTCTTCCGCCCGCAGGGGCCAGATACCGCCGCGTGC 3358  Query 3381 CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCGACGGGGAGATACTGCTCGGG 3358  Query 3389 CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC 3440  Sbjet 3359 CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC 3440  Sbjet 3410 CAGCAGACAAGGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC 3500  Sbjet 3410 CAAGTGGAGGGTCCAGATCGTCTAACTGGCCCGAAACCTTCCTGGCAACGTGC 3560  Query 3501 CAAGTGGAGGGTCCAGATCGTCTAACTGCTCACCCAAACCTTCCTGGCAACGTGC 3560  Sbjet 3479 CAAGTGGAGGTCCAGATCGTCTAACTGCTCCCCAAACCTTCCTGGCAACGTGC 3588  Query 3561 ATCAATGGGGTAGCTCCAGATCGTCTAACTGCTCCCCAAACCTTCCTGGCAACGTGC 3588  Query 3561 ATCAATGGGGTAGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCCTAACCGCTAACCGCTAACCGCTAACCGCTAACCGCTAACCGCTAACCGCTAACCGCTAACCGCCGGAACGAGGACAACCTTCCTGGCAACGTGC 3598  Query 3621 AACAATGGGGTAGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCCTCACCC 3620  Sbjet 3539 ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCCTCACCC 3598	_			
Query3201ACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA3260Sbjet3179ACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA3238Query3261GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC3320Sbjet3239GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC3298Query3321GGCGGACATCATCAACGGCTTGCCCGTTCTCTGCCCGTAGGGGGCCAGATACTGCTTGGG3380Sbjet3299GGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGCAGGGGCCAGGAGATACTGCTCGGG3388Query3381CCAGCCGACGGAATGGTCTCCAAGGGGTGAGGGTTGCTGGCGCCCATCACGGCGTACGCC3440Sbjet3359CCAGCCGACGGAATGGTCTCCAAGGGGTGAGGTTGCTGGCGCCCATCACGGCGTACGCC3418Query3441CAGCAGACGAGAGGCTCCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC3500Sbjet3419CAGCAGACAAGGGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC3478Query3501CAAGTGGAGGGTGAGGTCCAGATCGTGCAACTGCTCACCGCGGAACCATCGCCCGGAACAGACGTGC3560Sbjet3479CAAGTGGAGGGTGAGGTCCAGATCGTGCAACTGCTCACCCAAACCTTCCTGGCAACGTGC3500Sbjet3539ATCAATGGGGTGAGGTCCAGATTGTGTCAACTGCCCAAACCTTCCTGGCAACGTGC3500Sbjet3531ATCAATGGGGTTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC3620Sbjet3539ATCAATGGGGTTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCCTCCCC3598Query3621AAGGGTCCTGTCACCAGATGTTATACCACGGGGCCGGAACCATCGCGTCACCC3598	_	-		
Sbjet 3179 ACTCCTCTTCGGGACTGGCCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA 3238  Query 3261 GTCGTCTTCCCGAATGGAGACCAACCTCATCACGTGGGGGGCAGATACCGCCGCGGC 3320  Sbjet 3239 GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC 3298  Query 3321 GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGATACCGCCGCGTGC 3298  Sbjet 3299 GGTGACATCATCAACGGCTTGCCCGTTCTGCCCGTAGGGGCCAGGAGATACCGCCGCGTGC 3298  Query 3381 CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGGCCAGGAGATACTGCTCGGG 3388  Query 3381 CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC 3440  Sbjet 3359 CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC 3418  Query 3441 CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC 3500  Sbjet 3419 CAGCAGACAAGGGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC 3478  Query 3501 CAAGTGGAGGGTGAGGTCCAGATCGTGTCCAACTGCCCAAACCTTCCTGGCAACAGGC  Sbjet 3479 CAAGTGGAGGGTCCAGATTGTGTCAACTGCTCCCAAACCTTCCTGGCAACGTGC 3538  Query 3561 ATCAATGGGGTAGGTCCAGATTGTCTCACCGAGACGAGGACCATCACCC 3620  Sbjet 3539 ATCAATGGGGTAGCTGGACTGTCTACCACGGGGCCCGAACCATCACCC 3620  Sbjet 3539 ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCCGAACCATCGCCTCACCC 3598  Query 3621 AAGGGTCCTGTCATCCAAGATGTATCACCACGGGGCCCGGAACGAGCACATCGCCTCACCC 3598	_			
Query3261GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGGCAGATACCGCCGCGTGC3320Sbjct3239GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC3298Query3321GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG3380Sbjct3299GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG3380Sbjct3299GGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG3358Query3381CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC3440Sbjct3359CCAGCCGATGGAATGGTCTCCAAGGGGTGAGGTTGCTGGCGCCCATCACGGCGTACGCC3418Query3441CAGCAGACGAGAGGCCTCCTAGGGTGATATAATCACCAGCCTGACTGGCCGGGACAAAAAC3500Sbjct3419CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTGACTGGCCGGGACAAAAAC3478Query3501CAAGTGGAGGTGAGGTCCAGATCGTGCCAAACTGCTCACCAAACCTTCCTGGCAACGTGC3538Query3561ATCAATGGGGTGAGGTCCAGATTGTGCAACTGCTCCCAAACCTTCCTGGCAACGTGC3538Query3561ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC3620Sbjct3539ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC3598Query3621AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCTGGCCCGCT3680	_			
Sbjet 3239 GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC 3298  Query 3321 GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG 3380  Sbjet 3299 GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG 3358  Query 3381 CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC 3440  Sbjet 3359 CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC 3418  Query 3441 CAGCAGACGAAGGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC 3500  Sbjet 3419 CAGCAGACAAGGGGCCTCCTAGGGTGCATAACTCACCAGCCTAACTGGCCGGGACAAAAAC 3478  Query 3501 CAAGTGGAGGGCCTCCTAGGGTGCATAACTCACCAGCCTAACTGGCCGGGACAAAAAC 3478  Sbjet 3479 CAAGTGGAGGGTCAGATCGTTCAACTGCTACCCAAACCTTCCTGGCAACGTGC 3538  Query 3561 ATCAATGGGGTAGGTCAGATTGTTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC 3538  Query 3561 ATCAATGGGGTATGCTGGACTGTCTACCAACGGGCCGGAACCATCGCATCACCC 3620  Sbjet 3539 ATCAATGGGGTATGCTGGACTGTCTACCAACGGGGCCGGAACCATCGCATCACCC 3620  Sbjet 3539 ATCAATGGGGTTGGACTGTCTACCAACGGGGCCGGAACGAGACCATCGCCTCACCC 3598  Query 3621 AAGGGTCCTGTCTACCAAGGGGCCCGGAACGAGACCATCGCCCC 3598	_			
Query3321GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG3380Sbjet3299GGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG3358Query3381CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCCCATCACGGCGTACGCC3440Sbjet3359CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCCCCATCACGGCGTACGCC3418Query3441CAGCAGACGAGGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC3500Sbjet3419CAGCAGACAAGGGGCCTCCTAGGGTGCAACTGCTACCCAAACCTTCCTGGCAACGTGC3478Query3501CAAGTGGAGGGTGAGGTCCAGATCGTGCAACTGCTACCCAAACCTTCCTGGCAACGTGC3560Sbjet3479CAAGTGGAGGGTGAGGTCCAGATTGTTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC3538Query3561ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC3620Sbjet3539ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC3598Query3621AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCGGCC	~ 1			
Sbjct 3299 GGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGCAGGGGCCCGAGAGATACTGCTCGGG 3358  Query 3381 CCAGCCGACGGAATGGTCTCCAAGGGGTGAGGTTGCTGGCGCCCATCACGGCGTACGCC 3440  Sbjct 3359 CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC 3418  Query 3441 CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC 3500  Sbjct 3419 CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTGACTGGCCGGGACAAAAAC 3478  Query 3501 CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC 3560  Sbjct 3479 CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC 3538  Query 3561 ATCAATGGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC 3538  Query 3561 ATCAATGGGGTTAGCTGGACTGTCTACCACGGGGCCCGAACCATCGCATCACCC 3620  Sbjct 3539 ATCAATGGGGTTGCTGGACTGTCTACCACGGGGCCCGAACGAGGACCATCGCATCACCC 3598  Query 3621 AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTCTGTGGGCTGGCCCGCT 3680	2			
Query       3381       CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC       3440         Sbjct       3359       CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC       3418         Query       3441       CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC       3500         Sbjct       3419       CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC       3478         Query       3501       CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC       3560         Sbjct       3479       CAAGTGGAGGGTGAGGTCCAGATTGTTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC       3538         Query       3561       ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC       3620         Sbjct       3539       ATCAATGGGGTTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC       3598         Query       3621       AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCCGCT       3680	_			
Sbjct 3359 CCAGCCGATGGAATGGTCTCCAAGGGGTGAGGTTGCTGGCGCCCATCACGGCGTACGCC 3418  Query 3441 CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC 3500 Sbjct 3419 CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC 3478  Query 3501 CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC 3560 Sbjct 3479 CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC 3538  Query 3561 ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGCATCACCC 3620 Sbjct 3539 ATCAATGGGGTTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC 3598  Query 3621 AAGGGTCCTGTCATCCAGATGTATACCACTGGGCCGGAACGAGGACCATCGCGTCACCC 3598	_			
Query       3441       CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC       3500         Sbjct       3419       CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC       3478         Query       3501       CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC       3560         Sbjct       3479       CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC       3538         Query       3561       ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC       3620         Sbjct       3539       ATCAATGGGGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC       3598         Query       3621       AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCCGCT       3680	_			
Sbjct 3419 CAGCAGACAAGGGGCCTCCTAGGGTGCATCACCAGCCTAACTGGCCGGGACAAAAAC 3478  Query 3501 CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC 3560  Sbjct 3479 CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC 3538  Query 3561 ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC 3620  Sbjct 3539 ATCAATGGGGTGTCTACCACGGGGCCGGAACGAGGACCATCGCCTCACCC 3598  Query 3621 AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCCGCT 3680	_			
Query       3501       CAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC       3560         Sbjct       3479       CAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC       3538         Query       3561       ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC       3620         Sbjct       3539       ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC       3598         Query       3621       AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCCGCT       3680	_			
Sbjct 3479 CAAGTGGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC 3538  Query 3561 ATCAATGGGGTATGCTGCACCACGGGGCCGGAACGAGGACCATCGCATCACCC 3620  Sbjct 3539 ATCAATGGGGTGTCTGCACCACGGGGCCGGAACGAGGACCATCGCGTCACCC 3598  Query 3621 AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCCGCT 3680	_			
Query       3561       ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC       3620         Sbjct       3539       ATCAATGGGGTGTCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC       3598         Query       3621       AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCCGCT       3680	_			
Sbjct 3539 ATCAATGGGGTGTCTGGACTGTCTACCACGGGGCCGGAACGAGGCCATCGCGTCACCC 3598  Query 3621 AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCCGCT 3680	_			
Query 3621 AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCCGCT 3680	_			
	_	3621		3680
	Sbjct	3599		3658

Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659		3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	à cgà g cà c c c cà t c c c c c c c c c c c c c	3778
Query	3801	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query Sbjct	3921 3899	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980 3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959		4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019		4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079		4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	tccacctacggcaagttccttgccgacggcggtgctcgggggggcgcttatgacataata	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGGGGGGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378 4460
Query Sbjct	4379	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439		4498
Query	4521	TGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499		4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559		4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	GTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798

Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGAC	4880
Sbjct	4799	ĠĠĠaaĠĊĊaĠĠĊa†Ċ†acaĠa†††ĠĠĊaĊĊĠĠĠĠĠĠĠĊĠĊĊĊĊĊĊĠĠĊa†ĠŤ†ĊĠaĊ	4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	rcgrccgrcctcrcrcacgctardacgcaggcrcrcacgctcdcccccccc	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	ĠĀĠĀĊŦĀĊĀĠŦŦĀĠĠĊŦĀĊĠĀĠĊĠŦĀĊĀŦĠĀĀĊĀĊĊĊĠĠĠĠĊŦŦĊĊĊĠŦĠŦĠĊĊĀĠĠĀĊ	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	tigcigc taggiggic tich ag ciccic ciccic ciccic at ciggiggiac caga tigtiggia ag tigtigat ticgic	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	ĊŢĊŖŖĠĊĊŖĊĊŢĊĊŖŢĠĠĊĊŖŖĊŢĠĊŢŖŢŢŖŢŖŢŖŢŖŢŖŢ	5218
Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
Sbjct	5219	gaaatcaccctgacgcacccagtcaccaaatacatcatgacatgcatg	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCTTGGCCGCGTAT	5360
Sbjct	5279	ĠĀĠĠŦĊĠŦĊĀĊĠĀĠĊĀĊĊŦĠĠĠŦĠĊŦĊĠŦŦĠĠĊĠĠĊĠŦĊĊŦĠĠĊŦĠĊŦŦŦĠĠĊĊĠĊĠŦĀŦ	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	rigicitigit caacagige rigicitigit catagit gigica gigit catagit	5398
Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	atcatacctgacagggaagtcctctaccgag-agttcgatgagatggaagagtgctctca	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	ĠĊĀĊŢŢĀĊĠŢĀĊĀŢĊĠĀĠĊĀĀĠĠĠĀŢĠĀŢĠĊŢĊĠĊĊĠĀĠĊĀĠŢŢĊĀĀĠĊĀĠĀĀĠĠĊĊĊŢ	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	ĊĠĠĊĊŤĊĊŤĠĊĂĠĂĊĊĠĊĠŤĊĊĊĠŤĊĀĠĠĊĂĠĀĠĠŤŤĂŤĊĠĊĊĊŤĠĊŤĠŤĊĊĀĠĂĊĊĀĀ	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578	ĊŤĠĠĊŔĸŔĸĸĸĊŤĊĠŔĠĸĊĊŤŤĊŤĠĠĠĊĠŔŔĠĊŔŦŔŤĠŤĠĠŔŔĊŤŤĊŔŢĊŔĠŤĠĠĠŔŤŔĊŔ	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	ÁTÁCTTGGCGGGCTTGTCÁÁCGCTGCCTGGTÁÁCCCCGCCÁTTGCTTCÁTTGÁTGGCTTT	5697
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TÁCAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	ġĠĠĠŦĠĠĠŦĠĠĊŦĠĊĊĊĠĠĊĊĠĊĊĊĠĠŦĠĊĊĠĊŦĂĊŦĠĊĊŦŦŦĠŦĠĠĠĊĠĊŦĠĠ	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	cttagctgccgccatcgcagtgttgactgggaaggtcctcatagacatccttgc	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937

Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query Sbjct	6020 5998	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079 6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058		6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	ĊĠĠŦŦĊĊŦĠĠĊŦĀĀĠĠĠĀĊĀŦĊŦĠĠĠĀĊŦĠĠĀŦĀŦĠĊĠĀĠŦĠŦŦĠĀĠĊĠĀĊŦŦŦĀĀĠĀĊ	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	ĊŢĠĠĊŢĸĸĸĸĸĠĊŢĸĸĠĊŢĊĸŢĠĊĊĸĊĸĠĊŢĠĊĊŢĠĠĠĸŢĊĊĊŢŢŢĠŢĠŢĊĊŢĠĊĊĸĠĊĠ	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	ĊĠĠĠŤŔŤŔĸĠĠĠĠĠŤĊŤĠĠĊĠŔĠŤĠ~ĠŔĊĠĠĊŔŤĊŔŤĠĊŔĊŔĊŤĠĊĠĊŤĠĊĊŔĊŤĠŤĠĠŔĠ	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	ĊŤĠŔĠŔŤĊŔĊŤĠĠŔĊŔŤĠŤĊŔŔŔŔŔĊĠĠĠŔĊĠŔŤĠŔĠĠŔŤĊĠŤĊĠĠŤĊĊŤŔĠĠŔĊĊŤĠĊŔ	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbjct	6716 6798	TTTGCGCCCCCTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6775 6857
Query Sbjct	6776	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6835
_	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Query Sbjct	6836		6894
Query	6918	GGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCTGATGCTGAGCTCATAGAGGCTAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015		7074
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Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075		7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCCGGA	7216
Sbjct	7135	AĞAAATCCTĞCĞĞAAĞTCTCĞĞAĞATTCĞCCCAĞĞCCCTĞCCCĞTTTĞĞĞCĞCĞĞCCĞĞA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query Sbjct	7277 7255	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336 7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315		7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375		7434
Query	7457	CCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTTCCATGccccccTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCTATTCCTCCATGCCCCCCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	ĠĠĠĠĠĠĠĊĊŦĠĠĠĠĂŦĊĊĠĠĂŦĊŦŦĂĠĊĠĂĊĠĠĠŦĊĂŦĠĠŦĊAĂĊĠĠŦĊĀĠŦĀĠŦĠĀĠĠĊ	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTGCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614 7696
Query Sbjct	7637 7615	CCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAGT	7756
Sbjct	7675		7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735		7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855 7937	GCCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCGTTGCCATGC CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7914 7996
Query Sbjct	7915	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC CAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975		8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	gattccaatactcaccaggacagcgggttgaattcctcgtgcaagcgtggaagtccaaga	8213

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AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG
Query
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     8214
                                                      8273
Sbjct
Query
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                                                      8355
         8274
                                                      8333
Sbjct
Query
     8356
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     8334
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Sbjct
     8416
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                                                      8595
Query
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         8514
                                                      8573
Sbjct
     8596
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                                                      8655
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Query
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Sbjct
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Query
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                                                      8753
Sbjct
Query
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         Sbjct
     8754
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                                                      8895
Query
     8836
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     8814
                                                      8873
Sbjct
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Query
     8896
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         8874
                                                      8933
Sbjct
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Query
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     9054
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                                                     9195
Query
     9136
         9114
                                                     9173
Sbjct
     9196
         CAAAGCTCAAAC
Query
                   9207
         9174
         CAAAGCTCAAAC
Sbjct
>dbj|BD091382.1| HCV cultivation method in eucaryotic cells
Length=9185
Score = 1.482e+04 bits (8027),
                       Expect = 0.0
Identities = 8806/9192 (95%), Gaps = 14/9192 (0%)
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Strand=Plus/Plus

Query	23	CACTCCACCATGAATCACTCCCCTGTGAGGAACTACTGTCTTCACGCAGAAAGCGTCTAG	82
Sbjct	1		60
Query	83	CCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGACCCCCCCGGGAGAGCCATA	142
Sbjct	61		120
Query	143	GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA	202
Sbjct	121		180
Query	203	TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT	262
Sbjct	181	TCAACCCGCTCAATGCCTGGAGATTTGGGCCGTGCCCCGCAAGACTGCTAGCCGAGTAGT	240
Query	263	GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCCTTGCGAGTGCCCCGGGAG	322
Sbjct	241	GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG	300
Query	323	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA	382
Sbjct	301	GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAAAAAA	360
Query	383	CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT	442
Sbjct	361	caccaaccgtcgccacagacgtcaagttcccgggtggcggtcagatcgttggtggagt	420
Query	443	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	ttacttgttgccgcacgcgccctagattgggtgtgcgcgcgacgacaaagacttccga	480
Query	503	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG	562
Sbjct	481	ĠĊĠĠŦĊĠĊāaĊĊŦĊĠāĠĠŦāĠāĊĠŦĊāĠĊĊŦāŦĊĊĊĊāāĠĠĊŦĊĠŦĊĠĠĊĊĊĠāĠĠĠĊāĠ	540
Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbjct	541	ĠĂĊĊŢĠĠĠĊŢĊĂĠĊĊĊĠĠĠŢĂĊĊĊŢŢĠĠĊĊĊĊŢĊŢĂŢĠĠĊĂĂŢĠĂĠĠĠĊŢĠĊĠĠĠŢĠĠĠĊ	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601	ĠĠĠŔŢĠĠĊŢĊĊŢĠŢĊŢĊĊĊĠŢĠĠĊŢĊŢĊĠĠĊĊŢŔĠĊŢĠĠĠĠĊĊĊĊŔĊŔĠŔĊĊĊĊĊĠĠĊĠ	660
Query	683	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCCCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	GGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCCCTGCCAGGGCCCTGGCGCATGG	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	CTCTATCTTCCTTCTGGCCCTGCTCTTTGCTTGACTGTGCCCGCTTCGGCCTACCAAGT	900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCGTCCCTTGCGTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGC	1140

Spict         114.1         CCCTRACGICGOGGACCTIGGGGGGTGTGTTTTCTTGTGGGGCAACTGTTTACCTTCCT         122           Ouery         1223         TCCCAGGGGGGGGCTTGTGGGGGTGTGTTTTTTCTGTGGGCCAACTGTTACCTTCCT         120           Ouery         1223         TCCCAGGGCGCACTGGAGGGAGGAGGGTGTGTTTTTCTCACGGGCCATATAAC         126           Sbjct         1201         TCCCAGGCCCACTGGAGGAGGCAAGAGTTGATTGTTCTATCTCCGGGCCATATAAC         126           Sbjct         1261         GGGTCACCGCATGGCATGGATATGATGATGACTGTCCCTACGAGGGGTTGGTAAT         122           Sbjct         1343         AGCTCAGCTCCCGCATGGCATATGATGATGATGACTATGACTCACCGAGGGGGTTGGTAAT         140           Ouery         1343         AGCTCAGGCTCCCGGATCCCACAAGCCATCATGGACATGACCCATCACGGGGGAATTGTCTCCTGTGTATT         140           Ouery         1321         AGCTCAGGCTGCCGGATACGTATTTTCTCATGGTGGGGAACTGGCCGAAGTCCTGTGTGTATT         140           Sbjct         1381         AGCTCTGGGGGCATAGGTATTTTCTCATGGTGGGGGAACTGGCCAAGGGCAAGTCCTGGTATT         140           Ouery         1403         AGCTCTGGCGGGGATAGGTATTTCTCCATGGTGGGGGAAACTGCACCGGGGAAATCCCGCGGGAATCCCGGCGGTAGGGGGAAACCCACCTGGTATTGGCGCCTTGTTTGT	•	1160		1000
1282   1223   1224   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225   1225	Query	1163		1222
Spiget         1201         TOCCASGGCCACTGGGCCACTGGGCCACTGGCATTGCATTGC	2			
Query         1283         GGGTCATCGCATGGCATGGCATGGATATGATGATGAACTGGTCCCTACCGCAGCGTTGGTGGT         1342           Sbjet         1261         GGGTCACCCCATGCCGATGGGATATGATGATGATGATCCCTGACCGCGGTTGGTGGT         1320           Query         1343         ACCTCAGCTCCTCCGGATCCCCAAGCCCATGGACATGATCCCTGTGCTCCACTGGGG         1402           Sbjet         1371         GGCTCAGCTCCTCCGGATCCCACAAGCCATCATGGACATGATCCCTCGTGCTCCACTGGGG         1380           Query         1403         ACTCTGGCGGCATACCCTATGGTGGGGAACTGATCCCTCACTGGGG         1462           Sbjet         1381         AGTCTGGCGGCATAGCCTATTCTCCATGGTGGGGAACTGACGGGCAAAGCGTCTGATGT         1462           Cuery         1463         AGTCTGGCGGCATAGCCTATTTCTCCATGGTGGGGAACTCGACGGGCAAAGCGTCACTGGGGAATGCCAAGGTATGCATGGT         1500           Query         1523         CACCACGGCTGGGCTTGTTGGTCCTTTACACCAGGGCCCAAGCAGACAACCTCAACTGAT         1582           Sbjet         1501         CACTGTGTCTGCATTTGCCTGCTCACCAGGCCCTAACCAAGCACCTCAAATGATAACCTCAA         1620           Query         1543         CACCACACCACGCCAGTTGGCAACTCAATAACCACAGGCCTTGAATTGCAATGAAAACCTCAA         1620           Query         1643         CACCACCACACGCCAGTTGGCAACTCAATAACCACAGGCCTTGAATTCAATCAA	_	_		-
Sbjet         1261         GOGTGCOCCCATGCCCATGGGATATGATGATGATGATGATGATGATGATGATGATG	_	-		
Query         1343         ACCTCAGCTGCTCCGGATCCCCAAAGCCATCATGGACAGTCACTGGTGCTCACTGGGG         1402           Sbjet         1321         GGCTCAGCTGCTCGGATCCCCAAAGCCATCTTGGACATGATCGCTGGTGGTCACTGGGG         1808           Query         1403         ACTCCTGGCCGGCATACCCTATTTCTCCATGGTGGGAACTGGCGAAGGTCCTGGTAGT         1462           Sbjet         1381         AGTCCTGGCCGGCTAACCGGACGCGGAAACCCACGGCGCAAGGTCCTGGTAGT         1440           Query         1463         AGTCCTGCTTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGAAAGTCCAACTGAT         1501           Sbjet         1501         CACCACGGCTGGCTTGTTGGTCTCTTTACACCAGGGCCCAAGCGGAAACTCCAACTGAT         1582           Sbjet         1501         CACTGTGTCTGGATTTGTTAGCCCCCTCAACAGGCGCCACAGGCGCAAAGCAACTCCAACTGAT         1582           Sbjet         1501         CACTGTGTCTGGATTTGTTAGCCCCCCTAACAGGCCCCTTAAATTGCAAGAACACAACTCCAACTGAT         1582           Sbjet         1501         CACCACGGCGATTTGGACACTCAATTAGCACCACAGGCCCCTTGAATTGCAATGAAACCCAAATTCAACTCTTCAAGCACAAACTCAACTCTTAA         1642           Sbjet         1621         CACCACAACGGCAGTTGCCACCTCAATACCACAAATTCAACTCTTCAAGCACTACAACTCTTGA         1620           Query         1703         GAGGTTGGCCACCTCAACGGCACTTCACATTTAGCCACAAATTCAACTCTACAACCTTCAAGCTTCAACTTTAAGTTA         1740           Query         1763         GAGGTTGCCACCTCAACGGACGCCCCCTACTGCCACTACCCCCACAGACCTCTACAGCTTGGCCCCGTACACCTTCACACCTCACACCTTCACCTACACCTCTACACCTTGCACCT	_			
Sbjet         1321         GGGCTGGCTGCTGCTGCTGCTGGTGGTGTGTTCTCTGGGGGATCTGGTGGTGTGTGT	_	-		
Query         1403         AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT         144e           Sbjet         1381         AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGGAAGGTCCTGGTAGT         144e           Query         1463         GCTGCTGCTATTTGCCGGCGTCGACGGGAACTCCACGGGGGAAGGTCCGGCCAC         152c           Sbjet         1441         GCTGCTGATTTGCCGGCGTCGACGGGAACCACGGCAACCAGGAACATCCAACTGAT         158c           Query         1523         CACCACGGCTGGGCTTGTTGTGTCTCTTACACCAGGCGCCAAGCAAG	_			-
Sbjet         1381         AGTOCTOGGGGGGGATAGGGTATTTCTCATGGTGGGGATAGGGGAATGGGGAATGCCTGGTTAGT         1440           Query         1463         GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGAAATGCCGGCC         1522           Sbjet         1441         GCTGCTGCTTATTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGAAATGCCGCCA         1500           Query         1523         CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT         1582           Sbjet         1501         CACTGTGTTGGATTTGTTAGCTCCTCCTCACCAGGGCCCAAGCAGAACATCCAACTGAT         1560           Query         1583         CAACACCAACGGCACTTTGGTACCTCTCTCACCAGGGCCCTAGAATTGCAACGACAACATGCACCACTAA         1622           Sbjet         1561         CAACCACACGGCACTTGGCACACTCAATAGCACGACCTTGAATTGCAACTCAATGAAAGCCTCAA         1620           Query         1621         CACCGGCTGGTTGGCAGGGCTTTCTTATCAACACAAAATTCAACTCTTCAGGCTGTCCTGA         1702           Sbjet         1621         CACCGGCTGGTTGGCAGGGCTTTCTTATCAACACAAAGTTCAACTCTTCAGGCTGTCCTGA         1762           Sbjet         1681         GAGGTTGGCCAGCTGCCCAACCCCTTACCCAATTTTTCACCACAGGGTTGGGGTGCTATCAGTTA         1740           Query         1763         TGCCAAACGGAAGCGGCCCTGACCAGCCCCCTACTGCTGGCACTACCCCCACAGGGCCCCCTATCACTCTAGGTTACCTTACATTA         1740           Query         1823         TGCCAACGGAACGCGCCCCCAACGGCCCCCCCATTGTGCTGGCACTACCCCCCACAAACCTCCCCCACAAACCTCCCCCACTGCATTATTACTACTACAACCAAGGCCACCCCCTACTACTCCCAC	_			
Query         1463         GCTGCTGCTATTTGCCGGCGTCGACGGGGAAACCCACGTCACCGGGGAAATGCCGGCC         1500           Sbjet         1441         GCTGCTGCTATTTGCCGGCGTCGACGGGAAACCCACGTCACCGGGGAAATGCCGCCAC         1500           Query         1523         CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT         1582           Sbjet         1501         CACTGTGTCTGGTTTGTTGTACCTCCTCCACCAGGCGCCAAGCAGAACGTCAACTGAATTGAACCAGGTCAATTGAAACCCAACGGCACTTAA         1662           Query         1583         CAACACCAACGGCAGTTGGCCACTCAATTAGCACGGCCCTGAACTGACATGAAAAGCCTTAA         1622           Sbjet         1561         CAACCCAACGGCAGTTGGCCACTCAATTAGCACCAACTCAACTCAATGAAAACCAAATTCAACTCTTCAGGCTGTCCTGA         1702           Query         1643         CACCGGCTGGTTGGCAGGGCCTTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA         1702           Sbjet         1621         CACCGGCTGGTTGGCAGGGCCTTTCTTCTATCCAACAAATTCAACTCTTCAGGCTGTCCTGA         1702           Sbjet         1681         GAGGTTGGCCAGCTGCCGACCCTTACCGATTTTTGCCCAGGGCTGGGGCTCTATCAGTTA         1740           Query         1763         TGCCAACGGAAGCGCCCTCGACCGACCACTTACCGATTTTGACCTACCCCTACAACCTTC         1802           Sbjet         1741         TGCCAACGGAAGCGCCCTCGACCGGCCCTACTTACCGTTACGCTTACCCTTACACTTC         1802           Sbjet         1801         CGGTGTTGGCCCGCCAAAGAGCGTGTGTGGCACGCCCTACTGCTGCTACACCCCCAAAACCTT         1922           S	_			
Sbjet         1441         GCTGGGGTTGTTGCGGCCTGACCGGGGGAACCCACGTGGGGGAACTCCGGGGCAACTCGGGCGCAACTCGACTCGAT         1582           Query         1523         CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACTCCAACTGAT         1582           Sbjet         1501         CACTGTGTCTGGATTTGTTAGCCTCTCCCCACCAGGCGCCCAAGCAGACAGCACACTCAGTGAT         1560           Query         1583         CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA         1642           Sbjet         1561         CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGAAACTCCTACATGATAGCCCTAA         1620           Query         1643         CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA         1702           Sbjet         1621         CACCGGCTGGTTGGCAGGCCTTTTCTTATCAACACAAAATTCAACTCTTCAGGCTGTCCTGA         1680           Query         1703         GAGGTTGGCCAGCTGCCGACCCTTACCGATTTTGCCCAGGGCTTGGCCTAACCTTACTTA	_	1381	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	
1523	_	1463		-
Sbjet 1501 CACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAGACGTCCAGTGTAT 1560  Query 1583 CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCCTGAATTGCAATGAAAGCCTTAA 1642  Sbjet 1561 CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGAAAGCCTCAA 1620  Query 1643 CACCGGCTGGTTAGCACGGCGCTTCTATCAACCACAAATTCAACTCTACAGGCTGTCCTGA 1702  Sbjet 1621 CACCGGCTGGTTAGCACGGGCCTTCTATCAACCACAAATTCAACTCTTCAAGGCTGTCCTGA 1680  Query 1703 GAGGTTGGCCAGGGCTTTCTATCACCACAAGTTCAACTCTACAGGCTGTCCTGA 1680  Query 1763 GAGGTTGGCCAGCGCGCGACGCCTTACCGATTTTCACCAGGGCTGGGCCTTATCAGTTA 1740  Query 1763 TGCCAACGGAAGGCGCCTCGACCGATTTTCACCACAAGGCCTTGCTGCAAGACCTTG 1822  Sbjet 1741 TGCCAACGGAAGGCGCCTCGACCGACCCCTTACCGATTTTCACCCACAAGACCTTG 1880  Query 1823 TGGCATTGTGCCCGCAAGAGGCCCCTTACCGTATTCACCCCCCAAGACCTTG 1880  Query 1880 GGTGGTGGCAAGAGGCGCCCCGACCACGCCCCTACACGCCCCCAAGACCTTG 1880  Query 1881 GGGATTGTGCCCGCAAGAGGCGCCCTTACCGTTGCTACCCCCCCAAGACCTTG 1880  Query 1882 GGTGGTGGGAACGACCGACAGGCCCCTACTACGCTACCTCCACGCCCCGT 1880  Query 1943 GGGTGTGGCAACGACGACGGCCCGACAGGCCCCTACAGCTGCGGAAAATATAC 1940  Query 1943 GGGTGGGAACGACCGACAGGTGTGTGTGTGCCGGTATATTGCTTCACTCCCAGCCCCGT 1880  Query 2003 GATGAACTCAACTGGATTCACACACAGGCCACCTGCTGGGACAAATGATAC 1940  Query 2003 GATGAACTCAACTGGATTCACCACACCTGGGGTGAAAATTGACTTG  Sbjet 1981 GAGAGTCTTGTCCTTAACAAACACACAGGCCACCTGCTGGGCAATTGGTTGCTGTGTTACCTG 1980  Query 2003 GATGAACTCAACTGGATTCACCACAAAGGCCACCTGTGGACAATTGACTTGCTGCTTAACCAACTGGATTGCTTGC	_	1441		
Sepict 1583 CAACACCAACGGCAGTTGGCACTCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA 1620  Query 1643 CACCACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGAAAGCCTCAA 1702  Sepict 1621 CACCACCACGGCTGGTTAGCAAGGGCCTTCAATAGCACCAAAGTTCAACTCTTCAGGCTGTCCTGA 1702  Sepict 1621 CACCGGCTGGTTAGCAAGGGCTCTTCTATCAACACCAAAGTTCAACTCTTCAGGCTGTCCTGA 1680  Query 1703 GAGGTTGGCCAGGCCCTTACCGATTTTGCCCAGGGCTGGGGCCCTAACGTAA 1762  Sepict 1681 GAGGCTAGCCAGCCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA 1760  Query 1763 TGCCAACGGAAGCGCCCTTACCGATTTTGACCAGGGCTGGGGCCCTACAGTTA 1760  Query 1763 TGCCAACGGAAGCGCCCTTACCGATTTTGACCAGGGCTGGGGCCCTACAGTTA 1760  Query 1823 TGGCATGTGCCCGCACCACGGCCCCTACTGCTGGGACTACCCCCCAAAACCTTG 1880  Query 1823 TGGCATTGTGCCCGCAAACACCCCTCAAGCCCCCT 1880  Sepict 1801 CGGTATTGTGCCCGCAAAGAGCCTGTGTGGCCCGGTATATTGCTTCACCCAGCCCCT 1880  Query 1883 GGTGGTGGGAACGACCGACAGGCCCCTACTGCTGGGAATATTGCTTCACCCAGCCCCT 1880  Query 1883 GGTGGTGGGAACGACCGACAGGGCGCCCTACTACAGCTGGGGTGCAAATGATAC 1942  Sepict 1861 GGTGGGGAACGACCGACAGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC 1942  Sepict 1861 GGTGGGGGAACGACCGACAGGGCGCCCCACTACAGCTGGGGTGCAAATGATAC 1920  Query 1943 GGATGTCTTCGTCCTTAACAACACCAGGCCCCCACCACACACGCGGGGTGCAAATGATAC 1920  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGACCCCCCTTGTGTCATCGGAGGGGC 2002  Sepict 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCCCCCCTTGTGTCATCGGAGGGGC 2002  Sepict 2011 GGCAACAACACCTTGGCTCCTAAAAGTGTGCGGAGCCCCCCTTGTGTCATCGGAAGGGCC 2004  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAAGCCCCCTTGTGTCATCGGAAGGGC 2004  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAACGCCCCACTGGAGCCAATTGGTTCGGTTGTACTGG 1980  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAACGCCCACTTGGTCTACTGGAAGCGCCCACTAAGACCCAAGGCCCACTGATTGCTTCGGAAGCAACCCTGGAGGGCC 2004  Query 2004 GGGCAACAACACCCTGGATCCCCACTGATTGCTTCCGCAAAGACCCCACTGGATGCTCGGAGCCACATA 2102  Sepict 2011 CTCTCGGGCCCCACTGGATTGCTTCCGCAAGCAACCCCGGAGGCCCACATA 2100  Query 2123 CTCTCGGTGCCGGTCCCGGTCCCTGGATTACCACCCAGTGCCTCTTGTTCACAACCCACTATAGCACCCCACTATAGCACCCCGATTAGCCTGACCCCACTATAGCCTCGACTACCCCGATTAGCCTTAGCACCCCACTAGCCCCACTAGATTCCTTGTACCATATCCTTGTA	_	1523		1582
Sbjet1561CAACACCAACGCAGTTGGCACCTCAATAGCACGGCCCTGAATGATAGCTGCAA1620Query1643CACCGGCTGGTTAGCAGGGCTCTCTATCAACACAAATTCAACTGTTCAGGCTGTCCTGA1702Sbjet1621CACCGGCTGGTTAGCAGGGCTTTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA1680Query1703GAGGTTGGCCAGGCCTTGCCAGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA1680Query1703GAGGTTGGCCAGCTGCCGAGGCCTTACCGATTTTGCCCAGGGCTGGGGCCCTATCAGTTA1762Sbjet1681GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGCCCAGGGCTGGGGCCCTATCAGTTA1740Query1763TGCCAACGGAAGCGCCCCGACCAGCCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA1800Query1823TGGCATGTGTGCCCGCAAAGAGCCCCCTAACTGCTGCGCACTACCCCCCAAAACCTTG1822Sbjet1801CGGTATTGTGCCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT1880Query1883GGTGGTGGGCACGACGACGGCTGGGGTGCGGCCCACCTACCACCCCAGCCCCGT1860Query1883GGTGGTGGGAACGACCGACAGGTCGGGCCGCCCTACCTAC	Sbjct	1501	CACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCCAAGCAGAACGTCCAGCTGAT	1560
Query1643CACCGGCTGGTTAGCAGGGGCTTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA1702Sbjet1621CACCGGCTGGTTGGCAGGCTTTTCTATCACCACAGTTCAACTCTTCAGGCTGTCCTGA1680Query1703GAGGTTGGCCAGCCGCCGAGCCTTTACCGATTTTGCCCAGGGTGGGGTCCTATCAGTTA1762Sbjet1681GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA1740Query1763TGCCAACGGAAGCGCCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTACAGACCTG1822Sbjet1741TGCCAACGGAAGCGCCCCGACCACCCCTACTGCTGGCACTACCCCCCAACACCTG1800Query1823TGGCATTGTGCCCGCAAAAGAGCTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT1882Sbjet1801CGGTGTTGGCCCCGCAAAGAGCTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT1860Query1883GGTGGTGGGAACGACCGACAGGTCGGGCCCGCCCACCTACAGCTGGGGTGCAAATGATAC1942Sbjet1861GGTGGTGGGAACGACCGACAGGTCGGGCCGCCCACCTACAGCTGGGGTGCAAATGATAC1920Query1943GGATGTTCGTCCTTAACAACACCAGGCCGCCCACCTACAGCTGGGGTGAAAATGATAC1920Query1943GGATGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG2002Sbjet1921GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG1980Query2003GATGAACTCAACTGGATTCACCAAAGTGTGGGGAGCCCCCCTTTGTGTCATCGGAAGGGC2062Sbjet1981GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCCCCCCTTTGTGTCATCGGAAGCACAAA2102Sbjet2041GGCGCAACAACACCCTGCACTGGCTCGTGATTGCTTCCGCAACAACATCCGGAAGCCACATA2122Sbjet2101CTCTCGGTGCGCTCCGGTCCCTGGATTACCACCAGTGGCTCGGACCCGACACAA2100Query2183GCTTTGGCA	Query	1583		1642
Sbjet 1621 CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA 1680 Query 1703 GAGGTTGGCAGGCTGCCGACCCTTACCACATTTTGACCACAGGCTGTCCTTGA 1740 Sbjet 1681 GAGGCTAGCCAGCTGCCGACCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA 1740 Query 1763 TGCCAACGGAAGCGGCCTGACGAACGCCCTACTGCTGGCACTACCCCAAGACTTCAAGCTTG 1822 Sbjet 1741 TGCCAACGGAAGCGGCCCGACCCCTACTGCTGGCACTACCCCCAAAACCTTG 1800 Query 1823 TGGCATTGTGCCCGCACACAGGGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG 1880 Sbjet 1801 CGGTATTGTGCCCGCAAAGAGCGGCCCTACTGCTGGCACTACCCCCCAAAACCTTG 1860 Query 1883 GGTGGTGGGAACGACCGACAGGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT 1860 Query 1943 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC 1942 Sbjet 1861 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCACCTACAGCTGGGGTGCAAATGATAC 1920 Query 1943 GGATGTCTCGTCCTTAACAACACCACGGCCCCCCTACCTCACGCTGGGGTGCAAATGATAC 1920 Sbjet 1921 GGACGTCTTGGTCCTTAACAACACCACGGCCCCCCCTACCTA	Sbjct	1561	CÁACACCÁACGGCÁGTTGGCÁCCTCÁÁTAGCÁCGGCCCTGAACTGCÁÁTGÁTÁGCCTCÁÁ	1620
Sbjet 1621 CACCGGCTGGTTGGCAGGGCTTTTCTATCACCCACAAGTTCAACTCTTCAGGCTGTCCTGA 1680  Query 1703 GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA 1762  Sbjet 1681 GAGGCTAGCCAGCTGCCGACGCCTTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA 1740  Query 1763 TGCCAACGGAAGCGCCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA 1740  Query 1763 TGCCAACGGAAGCGCCCCTACCGGTTGCTGCACCCCCCAAAACCTTG 1822  Sbjet 1741 TGCCAACGGAAGCGCCCCGACCACGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG 1800  Query 1823 TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCACTATCCCCCCCC	Query	1643		1702
Sbjet 1681 GGCTATGTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGCCCTATCAGTTA 1740  Query 1763 TGCCAACGGAAGCGGCCCGACCCCTACTGCTGCGCACCCCCCAAAACCTTG 1822  Sbjet 1741 TGCCAACGGAAGCGGCCCCGACCACGCGCCCCTACTGCTGCACCCCCCAAAACCTTG 1800  Query 1823 TGGCATTGTGCCCGCAAAGAGCGGCCCTACTGCTGGCACTACCCCCCAAAACCTTG 1882  Sbjet 1801 CGGTATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT 1860  Query 1883 GGTGGTGGGACGACGACGGCGCCCTACCTCCAGCTCCCT 1860  Query 1884 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC 1942  Sbjet 1861 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCACCTACAGCTGGGGTGCAAATGATAC 1920  Query 1943 GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAAATGGTTCGGTTGTACCTG 2002  Sbjet 1921 GGACGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAAATTGGTTCGGTTGTACCTG 1980  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTGCATTGCTCCCCAACCACTGCGGAGGGCC 2040  Query 2063 GGGCAACAACCCTGCACTGCCCCACTGTGTCATCCGGAAGGGCC 2040  Query 2063 GGGCAACAACACCTTGCTCCTCACCCCACTGATTGCTTCCGCAAACATCCGGAAGGCCCCCATA 2122  Sbjet 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTTGTGTCATCCGGAGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTCGCCCCACTGATTGCTTCCGCAAACATCCGGAAGGCCACATA 2122  Sbjet 2041 GGGCAACAACACCTTGCTCTCGCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACCATA 2122  Sbjet 2041 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAGCATCCGGAAGCCCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCGGTCCCTGGATTACCCAAACATCCGGAAGCACCCGCTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCAAGTTGCTTCCGCAAGCATCCCGTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCGGTCCCTGGATTACCACCAGGTGCATACCGGAAGCACCCGTATAG 2182  Sbjet 2101 GCTTTGGCATTATCCTTGACCACCAATTATACACCATATTTAAAAGTCAGGATGTACCCGTATAG 2182  Sbjet 2161 GCTTTGGCATTATCCTTGACCACCAACATTACACCAAACTATTTAAAAGTCAGGATGTACCGGAAGCACCCGTATAG 2182  Sbjet 2161 GCTTTGGCATTATCCTTGTACCACCAACCATTATTAAAACCAATATTTAAAACCAGGATGTACCGGAAGCACCCGTATAG 2182  Sbjet 2161 GCTTTGGCATTATCCTTGTACCACCAACCATATTTAAAACCACATATTTAAAACCAGGATGTACCGGAAGGATGTACCGGAAGGCCCACATA 2100	Sbjct	1621		1680
Sbjet 1681 GÄĞĞCTÄĞCCĞĞACCĞTTÄCĞĞÄTTTTĞACCÄĞĞĞĞTĞĞĞĞĞCĞTÄTCÄĞTTÄ 1740 Query 1763 TGCCAACGGAAGCGGCCCTGACGACGCCCTACTGCTGGCACTACCCTCCAAGACCTTG 1822	Query	1703		1762
Sbjet 1741 TGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG 1800  Query 1823 TGGCATTGTGCCCGCAAAGAGCGTTGTGTGCCCGGTATATTGCTTCACTCCCAGCCCCGT 1860  Sbjet 1801 CGGTATTGTGCCCGCAAAGAGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT 1860  Query 1883 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC 1942  Sbjet 1861 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCACCTACAGCTGGGGTGCAAATGATAC 1920  Query 1943 GGATGTTCGTCCTTAACAACACCCAGGCCCCCCCTGGGCAAATTGGTTCGGTTGACCTG 2002  Sbjet 1921 GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 1980  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT 2062  Sbjet 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjet 2041 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjet 2041 GGGCAACAACACCCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCGGTCCCCACTGATTGCTTCCGCAAACACCCGGAAGCCCACTA 2100  Query 2123 CTCTCGGTGCGGCCCCCACTGATTACCCCAAGTTGCTCCGCAACCATCCGGAACCCCCACTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCCTGGACCACACACA	Sbjct	1681		1740
Sbjet 1741 TĠĊĊĂĂĊĠĠĂĞĊĠĠĊĊĊĠĂĊCĂĠĊĠĊĊĊŤĂĊŤĠĊŤĠĊĂĊŤĂĊĊĊĊĂĂĂĂĊĊŤŤĠ 1800  Query 1823 TGGCATTGTGCCCGCAAAGAGCGTCTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT 1882  Sbjet 1801 CGGTATTGTGCCCGCAAAGAGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT 1860  Query 1883 GGTGGTGGGAACGACCGACAGGTGGGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT 1860  Query 1861 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGTGCAAATGATAC 1920  Query 1943 GGATGTTTCGTCCTTAACAACACCAGGCCCCACCTACAGCTGGGTGCAAATGATAC 1920  Sbjet 1921 GGACGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAAATGGTTCGGTTGTACCTG 2002  Sbjet 1921 GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 1980  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCCCCCCTTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTACCAAAGTGTGCGGAGGCCCCCCTTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjet 2041 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjet 2041 GGGCAACAACACCCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCCGGATTACACCCAGTGCTCTCCGCAAGCATCCCGAACACCCCACTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCCGGTCCCTGGATTACCCAAAGTTCAACTGGACTACCCGTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCCGGTCCCTGGATTCACCCAAGTGCTCGACTACCCGTATAG 2182  Sbjet 2101 GCTTTGGCACTATCCTTGTACCATCAACTACACCATATTCAAAGTCAGGATGACCGTATAG 2242  Sbjet 2161 GCTTTGGCACTATCCTTGTACCATCAACTACACCATATTCAAAATCAAGGATGACGTGGG 2220  Query 2283 AGGGGTCAGGCTCCGGAACAACCACCCAGCCCGCCCCACTAATTCAAACTACACCATATTCAAAACACCCTGGGG 2220	Query	1763		1822
Sbjet 1801 CGGTATTGTCCCCGCGAAGATGTGTGTGGTCCGGTATATTGCTTCACTCCAGCCCCGT 1860  Query 1883 GGTGGTGGGAACGACCGACAGGTCGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC 1942  Sbjet 1861 GGTGGTGGGAACGACCGACAGGTCGGCCCCACCTACAGCTGGGGTGCAAATGATAC 1920  Query 1943 GGATGTCTTCGTCCTTAACAACACCAGGCCCACCTACAGCTGGGGTGAAAATGATAC 1920  Sbjet 1921 GGACGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 2002  Sbjet 1921 GGACGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 1980  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT 2062  Sbjet 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCCGGAGCGCCCCCTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjet 2041 GGGCAACAACACCTTGCCCCACTGATTGCTTCCGCAAACATCCGGAACCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCCGGTCCCTGGATTACCCCAAGGTGCACTACCCGTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGTGCCTGGACTACCCGTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCGGTCCCTGGATCACCCAGGTGCCTGGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACCTGGGG 2242  Sbjet 2161 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTTAAAAATCAGGATGTACGTGGG 2242  Sbjet 2161 GCTTTGGCACTATCCTTGTACCATCAACTACACCATATTTAAAAATCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAACGCCTGCAACTGGACCGGAACGCTGGATCCTGATCTTGTACCATCAACTACACCATATTTAAAAATCAGGATGTACGTGGG 2220	Sbjct	1741		1800
Sbjet 1801 CGGTATTGTGCCCGCGAAGATGTGTGTGTCCGGTTATATTGCTTCACTCCCAGCCCCGT 1860  Query 1883 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC 1942 Sbjet 1861 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCACCTACAGCTGGGGTGCAAAATGATAC 1920  Query 1943 GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 2002 Sbjet 1921 GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 1980  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGGACGCCCCCTTGTGTCATCGGAGGGGT 2062 Sbjet 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCGGGAGCGCCCCCTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122 Sbjet 2041 GGGCAACAACACCCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGTGCATGACCTCGGACGCCCCACTATAG 2182 Sbjet 2101 CTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGTGCATACCCGTATAG 2182 Sbjet 2101 CTCTCGGTGCGGCTCCTGGATTACACCCAGGTGCCTGGACTACCCGTATAG 2182 Sbjet 2101 CTCTCGGTGCGGCTCCTGGATCACACCCAGGTGCCTGGACTACCCGTATAG 2182 Sbjet 2101 CTCTCGGTGCGGCTCCTGGATCACACCCAGGTGCCTGGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCCATATTCAAAGTCAGGATGTACGTGGG 2242 Sbjet 2161 GCTTTGGCACTATCCTTGTACCATCAACTACACCATATTCAAAGTCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCAGGCCAGGCTGGAACCACTGGACGGGGGGAACGCTTGGTCT 2302	Query	1823		1882
Sbjet 1861 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCCTACAGCTGGGGTGAAAATGATAC 1920  Query 1943 GGATGTCTTCGTCCTTAACAACACCCAGGCCACCGTGGGCAATTGGTTCGGTTGTACCTG 2002  Sbjet 1921 GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 1980  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT 2062  Sbjet 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjet 2041 GGGCAACAACACCCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCGGACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCCTGGATTACACCCAGGTGCCTGGTCGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACCGTGGG 2242  Sbjet 2161 GCTTTGGCATTATCCTTGTACCATCAATTACACCATATTTAAAATCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGCCTGCAACCGTGATCT 2302	Sbjct	1801		1860
Sbjet 1861 GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCACCTACAGCTGGGGTGAAAATGATAC 1920  Query 1943 GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 2002  Sbjet 1921 GGACGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 1980  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGGCCCCCCTTGTGTCATCGGAGGGGT 2062  Sbjet 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjet 2041 GGGCAACAACACCCTTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCACTACCCGTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCTGGATCACCCAGGTGCCTGGTCGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCCAGGTGCCTGGTCAGCTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCCATATTCAAAGTCAGGATGTACGTGGG 2242  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGCCTGCAACTGACCGTGAACCTTGGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGCCTGCAACTGGACGCCGGGGCGAACGCTGTGATCT 2302	Query	1883		1942
Sbjet 1921 GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 1980  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGGGGCCCCCTTGTGTCATCGGAGGGGT 2062  Sbjet 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjet 2041 GGGCAACAACACCCTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCCAGGTGCCTGGTCAGGATGTACGTGGG 2242  Sbjet 2161 GCTTTGGCACTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302	Sbjct	1861		1920
Sbjet 1921 GGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG 1980  Query 2003 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT 2062  Sbjet 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjet 2041 GGGCAACAACACCCTGCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCCTGGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG 2242  Sbjet 2161 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302	Query	1943		2002
Sbjct 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCTCCTTGTGCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjct 2041 GGGCAACAACACCCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG 2182  Sbjct 2101 CTCTCGGTGCGGCTCCCGGTCCCTGGATCACCCAGGTGCCTGGTCGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG 2242  Sbjct 2161 GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302	Sbjct	1921		1980
Sbjct 1981 GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC 2040  Query 2063 GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2122  Sbjct 2041 GGGCAACAACACCCTGCACTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG 2182  Sbjct 2101 CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG 2242  Sbjct 2161 GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302	Query	2003		2062
Sbjet 2041 GGGCAACACCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA 2100  Query 2123 CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG 2242  Sbjet 2161 GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302	Sbjct	1981		2040
Sbjet 2041 ĠĠĠĊĂĂĊĂĊĊĊŤĠĊĂĊŤĠĊĊĊĂĊŤĠĂŤŤĠĊŤŤĊĊĠĊĂĠĠĂĊĠĊĠĠĂĊĠĊĠĊĂĊĂŤĂ 2100  Query 2123 CTCTCGGTGCGCTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG 2182  Sbjet 2101 CTCTCGGTGCGGCTCCCTGGATCACACCCAGGTGCCTGGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG 2242  Sbjet 2161 GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302	Query	2063	GGGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct 2101 CTCTCGGTGCGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG 2242  Sbjct 2161 GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302	Sbjct	2041		2100
Sbjct 2101 CTCTCGGTGCGGCTCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAG 2160  Query 2183 GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG 2242	Query	2123		2182
Sbjct 2161 GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302	Sbjct	2101		2160
Sbjct 2161 GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG 2220  Query 2243 AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT 2302	Query	2183		2242
	Sbjct	2161		2220
	Query	2243		2302
	Sbjct	2221		2280

Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGT	2362
Sbjct	2281	ggaagacagggacaggtccgagctcagcccgttactgctgaccactacacagtggcaggt	2340
Query	2363	CCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	cctcccgtgttccttcacaaccctaccagccttgtccaccggcctcatccaccta	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTCTGCTTGCAGACGCGCGCG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTGCTGCAGACGCGCGCG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700
Query	2723	GCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	GCCTCTCCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGT	2760
Query	2783	GGCCGCGTCGTGTGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	GGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTCACCATA	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCTTGTGGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTcccccccTCAACGTCCggggggggCGCGATGCCGTCAT	2962 2940
Sbjct Query	2881 2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	2999
Ouerv	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTCGTGC  CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060		3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119		3178
Query	3201	ACCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179		3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239		3298
Query	3321	GGTGACATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299		3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359		3418

Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	CAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAC	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	CAAGTGGAGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGC	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	atcaatggggtgtgctgctgctaccacggggccggaacgaggaccatcgcgtcaccc	3598
Query	3621	AAGGGTCCTGTCATCCAGATGTACCAATGTGGACCAAGACCTTGTGGGCCTGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	GGGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTG	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	tectetecaceagragiceceagagettecaggiggeteacetecatgeteceacagge	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	agcggcaaaagcaccaaggtcccggctgcatatgcagctcagggctataaggtgctagta	4078
Query	4101	CTCAACCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	ctcaaccctttgttgctgcaacactgggctttggtgcttacatgtccaaggctcatggg	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	atcgatcctaacatcaggaccggggtgagaacaattaccactggcagccccatcacgtac	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	tccacctacggcaagttccttgccgacggcggtgctcgggggggcgcttatgacataata	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTĠTĠAĊĠAĠTĠĊĊAĊŦĊĊAĊĠĠATĠĊĊAĊATĊĊATĊTTĠĠĠĊATĊĠĠĊAĊŦĠŦĊĊŦŢ	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGGGGGGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query	4521	TGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558

Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	gccgrggcctactaccgcggtctrgacgtgtccgtcatcccgaccagcggcgatgttgtc	4618
Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4619	ĠŤĊĠŤĠĠĊĸĂĊĊĠĂŤĠĊĊĊŤĊĂŤĠĂĊĊĠĠĊŤĸŤĂĊĊĠĠĊĠĂĊŤŤĊĠĂĊŤĊĠĠŤĠĂŤĂĠĂĊ	4678
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4679	TGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCTTGACCCTACCTTCACCATTGAG	4738
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4739	ACAATCACGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4798
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGGG	4880
Sbjct	4799	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGGGCGCCCCTCCGGCATGTTCGAC	4858
Query	4881	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940
Sbjct	4859	TCGTCCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4918
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4919	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	4978
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
Sbjct	5219	GAAATCACCCTGACGCACCCCAGTCACCAAATACATCATGACATGCATG	5278
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGCTCCTGGCTGCTCTGGCCGCGTAT	5360
Sbjct	5279 5361	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGCGTCCTGGCTGCTTTGGCCGCGAAACCACCAAACCACCAAACCACCAAACCACCA	5338 5420
Query	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5398
Sbjct Query	5421	ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
Sbjct	5399	ATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5457
Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	CGGCCTCCTGCAGACCGCTCCCGTCAGGCAGAGGTTATCGCCCCTGCTGTCCAGACCAA	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578	CTGGCAAAAACTCGAGACCTCTGGGCGAAGCATATGTGGAACTTCATCAGTGGGATACA	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638		5697
ر			

Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	GGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	agtóggcgtggtótgtgcagcaatactgcgccggcacgttggcccgggcgaggggcagt	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	gcagtggatgaaccagctgatagccttcgcctcccgggggaaccatgtttcccccacgca	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	cgggtataagggggtctggcgagtg-gacggcatcatgcacactcgctgccactgtggag	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	ctgagatcactggacatgtcaaaaacgggacgatgaggatcgtcggtcctaggacctgca	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCTGTACCCCCC	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	CCGTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACATAGG	6715
Query	6738	TTTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTGCAAGCCCTTGCTGCGGGAGGAGTATCATTCAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	GAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACG	6835

Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	tccatgctcactgatccctcccatataacagcagaggcggccgggcgaaggttggcgag	6894
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCCAA	6976
Sbjct	6895	ġĠĠatĊaĊĊĊĊĊĊĊĊţĠţĠĠĊĊĠĠĊţĊĊţĠĠĊţĠĠĊţĠĊĠĊţĊĊaţĊţĊā	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	ġĠĊāaĊŦŤĠĊāĊĊĠĊŦāāĊĊāŤĠāĊŤĊĊĊĊŤĠāŤĠĊŦĠāĠĊŤĊāŤāĠāĠĠĊĊāāĊĊŤĊĊŤ	7014
Query	7037	GTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	atggaggcagagatgggcggcaacatcaccagggttgagtcagaaaacaaagtggtgat	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	tötágactócttógatócácttátágágágágágágágágágágágágátótócátaccác	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AĞAAATCCTĞCĞĞAAĞTCTCĞĞAĞATTCĞCCCAĞĞCCCTĞCCCĞTTTĞĞĞCĞCĞĞCCĞĞA	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	ĊŢĀŢĀĀĊĊĊĊĊĠĊŢĀĠŢĠĠĀĠĀĊĠŢĠĠĀĀĀĀĀĠĊĊĊĠĀĊŢĀĊĠĀĀĊĊĀĊĊŢĠŢĠĠŢĊĊĀ	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TĠĠĊŢĠŢĊĊĠĊŢŢĊĊĂĊĊŢĊĊĀAAĠŢĊĊĊĊŢĊĊŢĠŢĠĊĊŢĊĊĠĊĊŢĊĠĠĀĀĠĀĠĠĠĀĊ	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	ĠĠŦĠĠŦĊĊŦĊĂĊŦĠĂĂŦĊĂĂĊĊĊŦĂŦĊŦĂĊŦĠĊĊŦŦĠĠĊĊĠĂĠĊŦĊĠĊĊĂĊĊĂĠĂĂĠĊŦŦ	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TĠĠĊAĠĊŤĊĊŤĊAAĊŤŤĊĊĠĠĊAŤŤAĊĠĠĠĊĠĀĊĀAŤĀĊĠĀĊĀAĊĀŤĊĊŤĊŤĠĀĠĊĊĊĠĊ	7434
Query	7457	CCCTTCTGGCTGccccccGACCTCCGACGTTGAGTCCTATTCTTCCATGccccccTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCTATTCCTCCATGCCCCCCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCTAGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	ĊAĂĊĠĊĠĠĀĠĠĂŤĠŤĊĠŤĠŤĠĊŤĠĊŤĊĂĂŤĠŤĊŤŤĂĊŤĊŤŤĠĠĂĊĀĠĠĊĠĊĀĊŤĊĠŤĊĀĊ	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615	CCCGTGCGCCGCGAAGAACAGAAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACG	7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675	TCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7734
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTTAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAGACCTTCTGGAAGACAATGTAAC	7974

Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	accaatagacactaccatcatggctaagaacgaggttttctgcgttcagcctgagaaggg	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	ĠĠĠŦĊĠŤŔĂĠĊĊĂĠĊŦĊĠŤĊŤĊĂŤĊĠŤĠŤŤĊĊĊĊĠĂŦĊŤĠĠĠĊĠŤĠĊĠĊĠŤĠŤĠĊĠŔĸĸĂŔ	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274	ACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGG	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGGCTATCGCAGGTGCCGCGCGCGCGGCGTACTGACAACTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct Query	8514 8596	CCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCGGGGGTCCAGGAGG	8573 8655
Sbjct	8574	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGccccccagggg 	8633
Query	8656	accoddaCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
Sbjct	8634		8693
Ouerv	8716	TCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8775
Sbjct	8694		8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACA	8835
Sbjct	8754		8813
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Sbjct	8814		8873
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Sbjct	8874		8933
Query	8956	ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT	9015
Sbjct	8934		8993
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Sbjct	8994		9053
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Sbjct	9054	TTGGGGTACCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC	9113

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Query
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Identities = 8806/9192 (95%), Gaps = 14/9192 (0%)
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                                                     60
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Query
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Sbjct
Query
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                                                     382
         Sbjct
     301
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                                                     442
Query
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     361
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Sbjct
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         Sbjct
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Query
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Query
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Sbjct
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    863
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Query
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    841
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Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	ĠĊĠĊĂĂĊŤĊĊĂĊĠĠĠĠĊŤŤŤĂĊĊĂĊĠŤĊĂĊĊĂĂŤĠĂŤŤĠĊĊĊŤĂĂĊŤĊĠĂĠŤĂŤŤĠŤĠŤĀ	960
Query	983	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct	961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCGTCCCTTGCGTTCGTGAGGGCAA	1020
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	1021	CGCCTCGAGGTGTTGGGTGGCGATGACCCCTACGGTGGCCACCAGGGATGGCAAACTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081 1163	CGCGACGCAGCTTCGACGTCACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGC  CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1140 1222
Query Sbjct	1141	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTCTTGTTGGTCAACTGTTTACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTA	1282
Sbjct	1201		1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261		1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321		1380
Query	1403	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441	ĠĊŦĠĊŦĠĊŦĂŦŦŦĠĊĊĠĠĊĠŦĊĠĂĊĠĊĠĠĠĂĂĂĊĊĊĂĊĠŦĊĂĊĊĠĠĠĠĂĂĠŦĠĊĊĠĠĊĊĀ	1500
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT	1582
Sbjct	1501	CACTGTGTCTGGATTTGTTAGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGAT	1560
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561 1643	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA CACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1620 1702
Query Sbjct	1621	CACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGA	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681		1740
Query	1763	TGCCAACGGAAGCGCCTCGACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741		1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	1801		1860
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	ggtggtggaacgaccgacaggtcgggcgcgcccacctacagctggggtgaaaatgatac	1920
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Sbjct	1921	ĠĠĂĊĠŤĊŤŤĊĠŤĊĊŤŤĂĂĊĂĂŦĂĊĊĂĠĠĊĊĂĊĊĠĊŤĠĠĠĊĂĂŤŤĠĠŤŤĊĠĠŤŤĠŤĂĊĊŤĠ	1980
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040

Query	2063	GGGCAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	ĠĠĠĊĂĂĊĂĂĊĂĊĊĊŦĠĊĀĊŦĠĊĊĊĊĂĊŦĠĂŦŦĠĊŦŦĊĊĠĊĂĂĠĊĂŦĊĊĠĠĂĊĠĊĊĂĊĂŦĂ	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	ctctcggtgcggctccggtccctggatcacacccaggtgcctggtcgactacccgtatag	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	gctttggcattatccttgtaccatcaactacaccatatttaaaatcaggatgtacgtgg	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACTGGCAGGT	2362
Sbjct	2281	ggaagacagggacaggtccgagctcagcccgttactgctgaccactacacagtggcaggt	2340
Query	2363	CCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	cctcccgtgttccttcacaaccctaccagccttgtccaccggcctcatccacctacca	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	gaacattgtggacgtgcagtacttgtacggggtgggggtcaagcatcgcgtcctgggccat	2460
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Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCTTCTTCTGCTGCAGACGCGCGCG	2520
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Sbjct	2521	cttgtggatgatgctactcatatcccaagcggaggcggctttggagaacctcgtaatact	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581	TAATĠĊĀĠĊĀŤĊĊĊŤĠĠĊĊĠĠĠĀĊĠĊĀĊĠĠŤĊŤŤĠŤĀŤĊĊŤŤĊĊŤ	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TĠĊATĠĠŦĀTTŤĠĀĀĠĠĠŤĀĀĠŦĠĠĠŤĠĊĊĊĠĠĀĠĊĠĠŤĊŤĀĊĀĊĊŦŤĊŤĀĊĠĠĠĀŤĠŤĠ	2700
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Query	2783	GGCCGCGTCGTGGCCGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	2761	ĠĠĊĊĠĊĠŤĊĠŤĠŤĠĠĊĠĠŦĠŤŤĠŤŤĊŤĊĠŤĊĠĠĠŤŤĠĂŤĠĠĊĠĊŤĠĂĊŤĊŤĠŤĊĂĊĊĂŤĂ	2820
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTÁCAÁGCGCTÁTÁTCÁGCTGGTGCTTGTGGTGGCTTCÁGTÁTTTTCTGÁCCÁGÁGTGGÁ	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTcccccctCAACGTCCgggggggggCGCGATGCCGTCAT	2962
Sbjct	2881	AĞCĞCÂACTĞCÂCĞTĞTĞĞATTCCCCCCCTCÂACĞTCCĞAĞĞĞĞĞĞĞĞĞĞ	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	2941	ĊŢŢŖĊŢĊĸŢĠŢĠŢĠĊŢĠŢŖĊŢĠĠĸĊŢĊŢĠĠŢĸŢŢŢĠĸĊĸŢĊĸĊĊĸĸĸŢŢĠĊŢĠĠ	2999
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Sbjct	3000	ccgtcttcggacccctttggattcttcaagccagtttgcttaaagtaccctactttgtgc	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	ĠĊĠŤĊĊĀĀĠĠĊĊŤŤĊŤĊĊĠĠŦŤĊŤĠĊĠĊĠŦŤĀĠĊĠĊĠĠĀĀĠĀŤĠĀŦĊ~ĠĠĀĠĠĊĊĀŤŦĀĊ	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	3119	GTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTC	3178

Query	3201	ACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	3239	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3298
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	3299	GGTGACATCAACGGCTTGCCTGTTTCCGCCCGCAGGGGCCGGGAGATACTGCTCGGG	3358
Query	3381	CCAGCCGACGGATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359	CCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	3419	ĊAĠĊAĠĀĊAĀĠĠĠĠĊĊŦĊĊŦĀĠĠĠŦĠĊĀŦĀĀŦĊĀĊĊĀĠĊĊŦĀĀĊŦĠĠĊĊĠĠĠĀĊĀĀĀĀĀĊ	3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479	caagrigagggrigaggriccagarrigrigricaacrigcrigccaaaccrirccrigicaacgrigc	3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539	ATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCGTCACCC	3598
Query	3621	AAGGGTCCTGTCATCCAGATGTACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCT	3680
Sbjct	3599	AAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCCTGGCCCGCT	3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659	CCGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTC	3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGCAGCCTGCTG	3778
Query	3801	TCGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779	TCGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3838
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	gggcacgccgtgggcatatttagggccgcggtgtgcacccgtggagtggctaaggcggtg	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	GACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAAC	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	tcctctccaccagtagtgccccagagcttccaggtggctcacctccatgctccacaggc	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	agcggcaaaagcaccaaggtcccggctgcatatgcagctcagggctataaggtgctagta	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	ctcaacccctctgttgctgcaacactgggctttggtgcttacatgtccaaggctcatgg	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGTGCTCGGGGGGCGCTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318

Query         4311         GACCARGCAGACACTCGGGGGGGGGGACTGGTTGTGCTGGCCACTCCTCTCCCCCC         4490           Sbjet         4319         GACCARGCAGACACTCGGGGGGGGGGACTGGTTGTGTCCACCACCCCCTCCGGGAGACT         4481           Sbjet         4379         TCGGTGACTGTCTCACACTCTAACATGGAGGAGGTTGTCTGTC				
Overy 1401         401         TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGGAGGAGT 1011111111111111111111111111111111111	- 1	-		
Sbjet         4379         TOCGTGGCCACCATCCCCCAAGAGGTGTTCCTCTCTCCACCACCGGAGGATC         4438           Query         4461         CCCTITTACGCCAAGGCTATCCCCCTCGACGTGATCAAGGGGGAAGACATCTCATCTTC         4520           Sbjet         4439         CCTITTACGCCAAGGCTATCCCCCTCGACGTGATCAAGGGGGGAAGACATCTCATCTTC         4439           Query         4521         TOCCACTCAAAGAAGAAGTAGGCAACCCCTCGGAAGATCAATTGGGCATTCGACTTAGGCATCAAT         4530           Sbjet         4599         TOTCATCAAAGAAGAAGTAGTCGACCAACCCGGCGAAGACTGGCCCAATCCACTTAGCCGGATCTAAT         4580           Ouery         4581         GCCGTGGCCTACTACCGCGGGTCTTGACGTTGACGTGTCTGTC	_	4319	GACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	
Query         4461         CCCTTTTACGGCAAGGCTATCCCCCTGGAGGTGATCAAGGGGGGAAGACATCTCATCTTCT         4520           Sbjet         4439         CCTTTTTACGGCAAGGCTATCCCCCTGGAAGTTACAAGGGGGGAAGACATCTCATCTTCT         4498           Query         4521         TGCCACTCAAAGAGAAGATGCGACGAGCGAAGCTGGTGGCATTGGGCATTGGCACTACAT         4580           Sbjet         4499         TGCCACTCAAAGAGAAGAGTGCGACGACGACGACGAAGCTGGTGGCATTGGGCATCACT         4580           Query         4511         GCCGTGGCCTACTACCCGGGCTTGACCTGCGCCAAAGCTGGTGCGATTGGGCATTGTGT         4640           Sbjet         4559         GCCGTGGCCTACTACCCGGGGTTTGACGTGTCCCACCACCCCACCACCGACCG	_	4401		4460
Sbjet         4439         CCTTTTTCAGGCAAGGCTTTCCCCCTGAGGTTATCAGGGGAGGACATCTTCTC         4498           Query         4521         TGCCACTCAAAGAAGAGTGCGACGAGCTGGCCGCGAAGCTGGCCATTGGGCATCAAT         4580           Sbjet         4499         TGCCACTCAAAGAAGAGTGCGACGACTGGCCGCGAAGCTGGCCCAATTGGGCATCAAT         4580           Query         4581         GCCGTGGCCTACTACCGCGGTCTTGACCTGCTCCATCCCGACCAGCGGCGATGTTGTC         4640           Sbjet         4599         GCCGTGGCCTACTACCCGCGTCTTGACCTGCTCATCCCGACCAGCGGCGATGTTGTC         4618           Query         4611         GTCGTGTCGACCGATGCCTCATGACCTGGCTTTACCGCTCATCCCGACCAGCGCGCATGTATACA         4700           Sbjet         4619         GTCGTGGCCACCCGAGCATCTCAGCACTGACTTGACCTTGACCTTGACTCTGACTTTAGA         4730           Sbjet         4679         TGCAATACCGGTGTCCACCCAGGATGCATTCAGCCTTGACCTTGACCTTCACCTTTAGA         4731           Query         4761         ACAACCACGTCCCCCCAGGATGTTCTCCCAGACTCAACGCCGGGGAGGACTCACCACTGAG         4792           Query         4761         ACAACCACGTCCCCCCAGGATGTTTTGTGTGCACCGCGGGGAGGACTGCAGC         4820           Sbjet         4799         ACAATCACGTCCCCCCAGGATGTTTTGTGTGCACCGCGGGGAGGACTCCACCACTGCAGC         4798           Query         4821         GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGACCCCCTCCCCCACTGTTTGTACACCCCCCCC	Sbjct	4379	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4438
Query         451         TGCCACTCAAAGAAGATGCGACGAGCTGGCCGCGAAGCTGCCTTGGCATTGGCATCAAT         4580           Sbjet         4499         TGTCATTCAAAGAAGAGTGCGACGACTGGCCGCAAAGCTGGCTG	Query	4461		4520
Sbjet499IGICATTCAAAGAABAGGTCGACAACTGGCCAAAGCTGGCCAATGGGCATTGACCATCAATCA	Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
Query         4581         GCGGTGGCCTACTACCGCGGTCTTGACGTTCTGTCATCCCGACCAGCGGCATGTTGTC         4640           Sbjet         4559         GCGTGGCCTACTACCGCGGTCTTGACGTGTCCCGACCAGCGGGCATGTTGTC         4618           Query         4641         GTCGTGGCCACACGCGCGTCTTGACGGTCTCATGACCGGCGACTTCGACTGTGATAGAC         4700           Sbjet         4619         GTCGTGGCAACCGATGCTCTCATGACCGGCTATACCGGCGACTTCGACTGTGATAGAC         4678           Query         4701         TGCAACACGTGTCCCCCAGGACAGTCGATTTCAGCCTTACCCTTCACCCATTCACCATTGAG         4780           Sbjet         4679         TGCAATACGGTGTCACCCCACGAGTCGATTCAGCCTTACCCTTACCCTACCTTACCATTGAG         4738           Query         4761         ACAACCACGCTCCCCCAGGATGCTTCTCTCCCAGGACTCAACGCGGGGCAGGACTGACCAG         4820           Sbjet         4739         ACAATCAGGCTCCCCCAGGATGCTTGCTCTCCCCACTCAACGTGGGGCAGGACTGACCAG         4820           Query         4821         GGGAAGCCAGGCATCTATAGACTTGTGCTCCCCCACCACTCACCGCGCCCCCCCC	Query	4521		4580
Sbjet         4559         GCCGTGCCCATACCCGGGCTTCTACCGGCTCTCATCCGCACCGCGCGACTTTCTCC         4618           Query         4641         GCCGTGCCACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC         4700           Sbjet         4619         GCCGTGGCAACCGATGCCTCATGACCGGCTATACCGGCGACTTCGACTCTGATAGAC         4678           Query         4701         TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTTACCATTGAC         4780           Sbjet         4679         TGCAATACGGTGTGCACCCAGACAGCTGGATTTCAGCCTTGACCCTACCTTACCATTGAG         4738           Query         4761         ACAACCACGCTCCCCCAGGATGCTGTCTCCCAGGACTCAACGCCGGGCAGACTGGCAGG         4820           Sbjet         4739         ACAATCACGCTCCCCCCAGGATGCTGTCTCCCAGGACTCAACGCCGGGGAGCCAGCATGGCAGG         4820           Sbjet         4799         GGGAAGCCAGGCATCTATAGATTTGTGGCACCGAGGGAGCCCCCTCCGGCATGTTCGAC         4888           Sbjet         4859         TCGTCCGTCCTCTGTGAGTGCTATCAGCTGTGGGGGGAGCCCCCTCCGGCATGTTCGAC         4918           Sbjet         4859         TCGTCCGTCCTCTGTGAGTGCTATGAGCGCGGGGGGGGGCCCCCTCCGGCATGTCCAGCCCCCC         4918           Query         501         CATCTTGAATTTGGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCCGTGTGCCCAGGAC         4978           Query         501         CATCTTGAATTTGGGCTACGAGCGTTCACTACACCCCTGGGGCTTCCCCATTTTCAGGTTCCCAGCCCCCCCC	Sbjct	4499	ŤĠŦĊŔŦŤĊŔŔŔĠŔŔĠŔŔĠŤĠĊĠŔĊĠŔĸĊŦĊĠĊĊĠĊĸŔŔĠĊŦĠĠŦĊĠĊŔŦŤĠĠĠĊŔŦĊŔŔŦ	4558
Sbjet         4559         GCCGTGGCCTACTACCGCGGTCTTGACCGTCGTCATCCCGCACCAGCGGGGATTTGTC         4618           Query         4641         GTCGTGTGCGACCGATGCTCTCATGACTGGCTTTACCGGGGACTTCGACTCTGTGATAGAC         4700           Sbjet         4619         GTCGTGGCGACCGATGCCCTCATGACCGGGCTATACCGGGGACTTCGACTCGGTGATAGAC         4678           Query         4701         TGCAACAGTGTGTACACTCAGACAGTCGATTTCAGCCTTGACCTTACCTTTACCATTGAG         4760           Sbjet         4679         TGCAATACGTGTGTCACCCAGGACAGTCGATTTCAGCCTTGACCTTACCTTCACCATTGAG         4738           Query         4761         ACAACCACGCTCCCCCAGGATGCTCTCCCGGACTCTACAGCCTGGGGCAGGACTGCAGG         4820           Sbjet         4739         ACAATCACGCTCCCCCAGGATGCTCCCCCAGCACCTAACGTCGGGGCAGCGCCCCTCCGGCATGTTCGAC         4880           Sbjet         4799         GGGAAGCCAGGCATCTACAGATTGTGGCACCGGGGGAGCCGCCCTCCCGGCATGTTCGAC         4880           Sbjet         4881         TGGTCCGTCCTCTGGAGTCTATGAGCCCGGGGTGTCCTTGTATGAGGCCAGGCCTTCCCGTATGTAT	Query	4581		4640
Sbjet 4619 GTGGGCAACCGATGCCCTAGCAGCGGCTATACCGGCGACTTCGACCTGGATAGAC 4678  Query 4701 TGCAACACGTGTGTCACCTCAGACAGCGGCTATACCGCCTACCTTTACCATTGAG 4768  Sbjet 4679 TGCAACACGTCTCACCCAGACAGCGGTTCAGCCCTACCCTATCACCATTGAG 4738  Query 4761 ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGCAGGAG 4820  Sbjet 4739 ACAATCAGGTTGTCACCCAGACACTCAACGCCGGGGCAGGACTGCAGG 4798  Query 4821 GGGAAGCCAGGCATCTATAGATTTGTGGCACCCACTCAACGTCGGGGCAGGACTGCAGG 4798  Sbjet 4799 GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGCCATGTTCGAC 4858  Query 4881 TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGGGGGGGG	Sbjct	4559		4618
sbjet4619GTGGTGGCAACCGATGCCTCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGAC4678Query4701TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACACTATGAG4760Sbjet4679TGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG4738Query4761ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGTCGGGGCAGGACTGGCAGG4820Sbjet4739ACAATCACGGTCCCCCCAGGATGCTGTCCCCGCACTCAACGTCGGGGCAGGACTGGCAGG4798Query4821GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGAGGCCCCTCCGGCATGTTCGAC4850Sbjet4799GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGGCCCCTCCGGCATGTTCGAC4850Sbjet4859TCGTCCGTCCTGTGAGTGTATGAGCAGGGGGGAGGGCCCCTCCGGCATGTTCGAC4910Sbjet4859TCGTCCGTCCTGTGAGTGCTATGAGCAGGGGTGTGCTTGGTATGAGCTCACGCCCGC4918Query4941GAGACTACAGTTAGGCTACGAGCGTACAAGACACCCCGGGGGTTCCCCTGTGCCAGGAC5000Sbjet4919GAGACTACAGTTAGGCTACGAGCGTACAAGACACCCCGGGGCTTCCCCTGTGCCAGGAC5000Sbjet4919GAGACTACAGTTTTGGGAGGGGGTTATCACGGCCCTACTCATTATATAGATGCCCACTTTTTA5060Sbjet4979CATCTTGAATTTTGGGAGGGGGTTATCAGGCCTCACTCATTATATAGATGCCCACTTTTTA5030Query5011CATCTTGAATTTTGGGAGGGGGGTTTTACAGGCCTCACTCA	Query	4641		4700
Sbjet 4679 TGCAATACGTGTGTCACCAGACAGTCGATTCAGCCTTACCTCACCATTCAGC 4738 Query 4761 ACAACCACGCTCCCCCAGACATCCTTCACCATCAGCACGAGCAGACTGCAGG Sbjet 4739 ACAATCACGTCCCCCAGGATGCTTGTCCCAGCACTCAACGCCGGGGCAGGACTGCAGG Query 4821 GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGGGCCCCTCCGGCATGTTCGAC Sbjet 4799 GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGGGCCCCTCCGGCATGTTCGAC Query 4881 TCGTCCGTCCTCTGTGAGTGCTAGAGTTGGTGTGTGAGAGTGTTCGAC Sbjet 4859 TGGTCCTCTGTGAGTGCTATGAGGCAGGGGAGGGCCCCTCCGGCATGTTCGAC Query 4941 GAGACTACAGTTAGGCTACGAGGTTGCTTGGTATGAGCTCACGCCCGCC	Sbjct	4619		4678
Sbjet4679TGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCTTGACCCTTCACCATTGAG4738Query4761ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCCGGGCAGGACTGGCAG4820Sbjet4739ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG4798Query4821GGGAAGCCAGGCATCATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGAC4880Sbjet4799GGGAAGCCAGGCATCATAGAATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGAC4858Query4881TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGGGAGCGCCCCTCCGGCATGTTCGAC4858Query4981TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGATGAGCTCACGCCCGC4940Sbjet4859TCGTCCGTCTCTGTGAGTGCTATGACGCGGGCTTTGGTATGAGCTCACGCCGCC4918Query4941GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC5000Sbjet4919GAGACTACAGTTAGGCTACAGGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC5000Sbjet4979CATCTTGAATTTTGGGAGGGGTCTTTACGGGCCTCACTCA	Query	4701		4760
Sbjet 4739 ACAATCACGCTCCCCAGGATGCTGTCTCCCGCACCTCAACGTCGGGAGAGACTGCCAGG 4798 Query 4821 GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCCCCCTCCGGCATGTTCGAC 4880 Sbjet 4799 GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGAGCCGCCCTCCGGCATGTTCGAC 4858 Query 4881 TCGTCCGTCCTCTGTGAGTGCTATGACGCCCGGGGAGCCGCCCTCCGGCATGTTCGAC 4858 Query 4881 TCGTCCGTCCTCTGTGAGTGCTATGACGCCGGGGGAGCCGCCCTCCGGCATGTTCGAC 4859 TCGTCCGTCCTCTGTGAGTGCTATGACGCCGGGGGAGCCGCCCCCCCC	Sbjct	4679		4738
Sbjet         4739         ACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG         4798           Query         4821         GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTCGAC         4880           Sbjet         4799         GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGAC         4858           Query         4881         TCGTCCGTCCTCTGTGAGTGCTATGACCCGGGGGACCCCCCCC	Query	4761		4820
Sbjet 4799 GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCCCCCTCCGGCATGTTCGAC 4858 Query 4881 TCGTCCGTCTGTGAGTGCTATGAGCGCGGGGGTGTGTTGATCTAGCCCGCC 4940 Sbjet 4859 TCGTCCGTCTGTGAGTGCTATGACGCCGGGGTGTGTTGATGAGCTCAGGCCCGCC 4918 Query 4941 GAGACTACAGTTAGGCTACGAGCGTAGAACACCCCGGGGCTTCCCGTGTGCAGGAC 4978 Sbjet 4919 GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTTGCCAGGAC 4978 Query 5001 CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	Sbjct	4739		4798
Sbjet 4799 GGGAAGCCAGGCATCTTACAGATTTGTGGCACCGGGGAGCGCCCTCCGGCATGTTCGAC 4858  Query 4881 TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	Query	4821		4880
Sbjet 4859 TCGTCCGTCCTCTGAGGTGCTATGACGCAGGCTGTGCTTGGTATGACCTCACGCCCCCC 4918  Query 4941 GAGACTACAGTTAGGCTACGAGCGTACTAGAACACCCCGGGGCTTCCCGTGTGCCAGGAC 5000  Sbjet 4919 GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC 4978  Query 5001 CATCTTGAATTTTGGGAGGCGTACTATGACACCCCGGGGCTTCCCGTGTGCCAGGAC 4978  Query 5061 CATCTTGAATTTTGGGAGGGCGTTTTACGGGCCTCACTCA	Sbjct	4799		4858
Sbjet 4859 řěgřečeřečeřečeřeřeřagřečeřagřečagčeřeřečeřeřečeřečeřečečečečečečečečečeč	Query	4881		4940
Sbjet 4919 GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTCCAGGAC 4978  Query 5001 CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	Sbjct	4859		4918
Sbjet 4919 GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC 4978  Query 5001 CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	Query	4941		5000
Sbjet 4979 CATCTTGAATTTTGGGAGGCCGCTCTTTACAGGCCTCATTATAGATGCCCACTTTCTA 5038  Query 5061 TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG 5120  Sbjet 5039 TCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCTGGTAGCGTACCAAGCCACCGTG 5098  Query 5121 TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGAGTGTGGAAGTGTTTGATCCGC 5180  Sbjet 5099 TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC 5158  Query 5181 CTTAAACCCACCCTCCATGGGGCCAACACCCCTGCTATACAGACTGGGCGAAGTGTTTCAATTCGC 5158  Query 5181 CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5240  Sbjet 5159 CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCGTGTTCAGAAT 5218  Query 5241 GAAGTCACCCTGACGACCCAACACCCCTGCTATACAGACTGGGCCGACCTG 5300  Sbjet 5219 GAAATCACCCTGACGACCCCAACACCCCTGCTATACAGACTGCATGTCGGCCGACCTG 5278  Query 5301 GAGGTCGTCACGAGCACCCAGTCACCAAATACATCATGACATGCATG	Sbjct	4919		4978
Sbjet 4979 CATCTTGAATTTTGGGAGGCGTCTTTACAGGCCTCACTCA	Query	5001		5060
Sbjet 5039 TCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCTGGTAGCGTACCAAGCCACCGTG 5098  Query 5121 TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGAACTGTGGAAGTGTTTGATCCGC 5180  Sbjet 5099 TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCGC 5158  Query 5181 CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5240  Sbjet 5159 CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5218  Query 5241 GAAGTCACCCTGACGGCCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5218  Sbjet 5219 GAAATCACCCTGACGACCCAACCAAATACATCATGACATGCATG	Sbjct	4979		5038
Sbjet 5039 TCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCTGGTAGCATACCAAGCCACCGTG 5098  Query 5121 TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC 5180  Sbjet 5099 TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTCGC 5158  Query 5181 CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5240  Sbjet 5159 CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5218  Query 5241 GAAGTCACCCTGCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5218  Sbjet 5219 GAAATCACCCTGACGCACCCCAATCACCAAATACATCATGACATGCATG	Query	5061		5120
Sbjet 5099 TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTGATTCGC 5158  Query 5181 CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5240  Sbjet 5159 CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5218  Query 5241 GAAGTCACCCTGACGCCACCCAATCACCAAATACATCATGACATGCATG	Sbjct	5039		5098
Sbjet 5099 TGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTCGC 5158  Query 5181 CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5240  Sbjet 5159 CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5218  Query 5241 GAAGTCACCTGACGCACCCAATCACCAAATACATCATGACATGCATG	Query	5121		5180
Sbjet 5159 CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5218  Query 5241 GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTCGC	5158
Sbjct 5159 CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT 5218  Query 5241 GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	Query	5181		5240
Sbjet 5219 GAAATCACCCTGACGCACCCAGTCACCAAATACATCATGACATGCATG	Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5218
Sbjet 5219 ĠAAATĊAĊĊĊTĠAĊĠĊAĠĊĊAĠTĊAĊĊAAATAĊATĠAĊATĠĊATĠ	Query	5241		5300
Sbjet 5279 GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGGCTCCTTGGCCGGCAAGCCGGCA 5338  Query 5361 TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA 5420  Sbjet 5339 TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA 5398  Query 5421 ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA 5479	Sbjct	5219		5278
Sbjet 5279 ĠĂĠĠŤĊĠŤĊĂĊĠĂĠĊĂĊĊŤĠĠĠŤĠĊŤĊĠŤŤĠĠĊĠĠĊĠŤĊĊŤĠĠĊŤĠĊŤĠĊČĠĊĠŤĂŤ 5338  Query 5361 TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA 5420  Sbjet 5339 TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA 5398  Query 5421 ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA 5479	Query	5301		5360
Sbjct 5339 TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA 5398  Query 5421 ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA 5479	Sbjct	5279		5338
Sbjct 5339 ŤĠĊĊŤĠŤĊĂĂĊĀĠĠĊŤĠĊĠŤĠĠŤĊĂŤĀĠŤĠĠĠĊĀĠĠĠŤĊĠŤĊŤŤĠŤĊĊĠĠĠĀĀĠĊĊĠĠĊĀ 5398  Query 5421 ATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA 5479	Query	5361		5420
	Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA	5398
	Query	5421		5479
	Sbjct	5399		5457

Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	ĠĊĀĊŢŢĀĊĠŢĀĊĀŢĊĠĀĠĊĀĀĠĠĠĀŢĠĀŢĠĊŢĊĠĊĊĠĀĠĊĀĠŢŢĊĀĀĠĊĀĠĀĀĠĠĊĊĊŢ	5517
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	5518	cgcctcctgcagaccgcgtcccgtcaggcagaggttatcgcccctgctgtccagaccaa	5577
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	5578	ctggcaaaaactcgagaccttctgggcgaagcatatgtggaacttcatcagtgggataca	5637
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	5638	atacttggcgggcttgtcaacgctgcctggtaaccccgccattgcttcattgatggcttt	5697
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	5698	TACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
Query	5780	ggggTGGGTGCCCAGCTCGCCGCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	5758	ĠĠĠĠŦĠĠĠŦĠĠĊŦĠĊĊĊĠĠĊĊĠĊĊĊĠĠŦĠĊĊĠĊŦĂĊŦĠĊĊŦŦŦĠŦĠĠĠĊĠĊŦĠĠ	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	cttagctggcgccgccatcggcagtgttggactggggaaggtcctcatagacatccttgc	5877
Query	5900	AGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	cccctccacggaggacctggtcaatctactgcccgccatcctctcgcccggagccctcgt	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AĞTCĞĞCĞTĞĞTCTĞTĞCAĞCAATACTĞCĞCCĞĞCACĞTTĞĞCCCĞĞĞCĞAĞĞĞĞĞĞĞĞ	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	6058	ĠĊĀĠŤĠĠĀŤĠĀĀĊĊĠĠĊŤĠĀŤĀĠĊĊŤŤĊĠĊĊŤĊĊĊĠĠĠĠĠĀĀĊĊĀŤĠŤŤŤĊĊĊĊĊĀĊĠĊĀ	6117
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	CTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCCTTTGTGTCCTGCCAGCG	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	ĊĠĠĠŦŔŦŔĸĠĠĠĠĠŦĊŦĠĠĊĠŔĠŦĠ~ĠŔĊĠĠĊŔŦĊŔŦĠĊŔĊŔĊŦĠĊĠĊŦĠĊĊŔĊŦĠŦĠĠŔĠ	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	ĊŢĠĀĠĀŢĊĀĊŢĠĠĀĊĀŢĠŢĊĀĀĀĀĀĀĊĠĠĠĀĊĠĀŢĠĀĠĠĀŢĊĠŢĊĠĠŢĊĊŢĀĠĠĀĊĊŢĠĊĀ	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	ĠĠāāĊāŤĠŤĠĠāĠŤĠĠĠāĊĊŤŤĊĊĊĊāŤŤāāŤĠĊĊŤāĊāĊĠĠĠĊĊĊĊŤĠŤāĊĊĊĊĊ	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	TTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	6596

Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	TAAGGCAGGTGGGGACTTCCACTACGTGA-CGGGTATGACTACTGACAATCTCAAATGC	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	6656	ccgtgccaggtcccatcgcccgaatttttcacagaattggacggggtgcgcctacatagg	6715
Query	6738	TTTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbjct	6716	TTTGCGCCCCCTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	6776	gaatacccggtagggtcgcaattaccttgcgagcccgaaccggacgtggccgtgttgacg	6835
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	6836	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	6894
Query	6918	GGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAA	6976
Sbjct	6895	GGGATCACCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCGCTCCATCTCTCAA	6954
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGATGGGCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGATGGGCGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
Query	7097	TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	7156
Sbjct	7075	TCTGGACTCCTTCGATCCGCTTGTGGCGGAGGAGGACGAGCGGGAGATCTCCGTACCCGC	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	7135	AGAAATCCTGCGGAAGTCTCGGAGATTCGCCCAGGCCCTGCCCGTTTGGGCCGGCC	7194
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	7195	CTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCA	7254
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	7255	TGGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGAC	7314
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTT	7396
Sbjct	7315	GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	7374
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	7375	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7434
Query	7457	CCCTTCTGGCTGccccccGACTTCGACGTTGAGTCCTATTCTTCCATGccccccTGGA	7516
Sbjct	7435	CCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCTATTCCTCCATGCCCCCCTGGA	7494
Query	7517	GGGGGAGCCTGGGGATCCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	7495	GGGGGAGCCTGGGGATCCTAGCGACGGTCATGGTCAACGGTCAGTAGTGAGGC	7554
Query	7577	CGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	7555	CAACGCGGAGGATGTCGTGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCAC	7614
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	7615		7674
Query	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	7675		7734

Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	7735	ĊAĊATTTĠAĊAĠAĊTĠĊAAĠTTĊTĠĠAĊAĠĊĊATTAĊĊAĠĠAĊĠŤAĊTĊAAĠĠAĠĠŤŦAA	7794
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	7795	ÁGCÁGCGGCGTCÁÁÁÁÁGTGÁÁGGCTÁÁCTTGCTÁTCCGTÁGÁGGÁÁGCTTGCÁGCCTGÁC	7854
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	7855	GCCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCGTTGCCATGC	7914
Query	7937	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	7915	CAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	7974
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
Sbjct	7975	ACCAATAGACACTACCATCATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8034
Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	8035	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAA	8094
Query	8117	GATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	8095	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATGGGAAGCTCCTACG	8153
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	8154	ĠĂŢŢĊĊĂĂŢĂĊŢĊĂĊĊĂĠĠĂĊĂĠĊĠĠĠŢŢĠĂĂŢŢĊĊŢĊĠŢĠĊĂĂĠĊĠŢĠĠĂĀĠŢĊĊĂĀĠĀ	8213
Query	8236	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295
Sbjct	8214	AAACCCCAATGGGGTTCTCGTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCG	8273
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbjct	8274	acatccgtacggaggaggcaatctaccaatgttgtgacctcgaccccaagcccgcgtgg	8333
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	8334	CCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8393
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	8394	AGAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8453
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	8454	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8513
Query	8536	CCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	8514	CCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCGGGGGTCCAGGAGG	8573
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGcccccccgggg	8655
Sbjct	8574	acgcggcgagcctgagagccttcacggaggctatgaccaggtactccgcccccctgggg	8633
Query	8656	acccccaCCACACACCACACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAG	8715
Sbjct	8634	acccccacaaccagaatacgacttggagctcataacatcatgctcctaccaacgtgtcag	8693
Query	8716	TCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCC	8775
Sbjct	8694	tcgcccacgacgccctggaaagaggctctactacctcacccgtgaccctacaaccccc	8753
Query	8776	TCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACA	8835
Sbjct	8754	tcgcgagagctgcgtgggagacagcaagacactccagtcaattcctggctaggcaaca	8813
Query	8836	TAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8895
Sbjct	8814	TAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCG	8873

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8896
        TCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCT
Query
                                                   8955
         TCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCT
    8874
                                                   8933
Sbjct
        ACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCAT
Query
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                                                   9015
        8934
                                                   8993
Sbjct
Query
    9016
        TTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAAC
                                                   9075
        8994
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Sbjct
    9076
        TTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC
                                                   9135
Query
         Sbjct
    9054
        TTGGGGTACCGCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTC
                                                   9113
        TGTCCAGAGGAGGCAGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAA
                                                   9195
Query
    9136
        Sbjct
    9114
                                                   9173
    9196
        CAAAGCTCAAAC
                  9207
Query
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Sbjct
>gb|AR118723.1|AR118723 Sequence 123 from patent US 6150087
Length=9185
Score = 1.481e+04 bits (8021), Expect = 0.0 Identities = 8804/9192 (95%), Gaps = 14/9192 (0%)
Strand=Plus/Minus
Query
    23
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        9185
                                                   9126
Sbjct
Query
    83
        CCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGACCCCCCGCGCAGAGCCCATA
                                                   142
        Sbjct
    9125
                                                   9066
        GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACCGGGTCCTTTCTTGGA
                                                   202
Query
    143
         GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA
    9065
                                                   9006
Sbjct
        TAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCCGCAAGACTGCTAGCCGAGTAGT
Query
    203
                                                   262
        Sbjct
    9005
                                                   8946
Query
    263
        GTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGGGTGCTTGCGAGTGCCCCGGGAG
                                                   322
        8945
                                                   8886
Sbjct
    323
        GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA
                                                   382
Query
         8885
                                                   8826
Sbjct
    383
        CACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGT
                                                   442
Query
        Sbjct
    8825
                                                   8766
    443
        TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA
                                                   502
Query
        8706
    8765
Sbjct
    503
        GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG
                                                   562
Query
        8705
                                                   8646
Sbjct
Query
    563
        GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC
                                                   622
        8645
                                                   8586
Sbjct
        GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG
    623
                                                   682
Query
         Sbjct
    8585
        GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG
                                                   8526
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Query	683	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	8525	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	8466
Query	743	GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	8465	ĠĠĠĠŤŔĊŔŤŔĊĊĠĊŤĊĠŤĊĠĠĊĠĊĊĊŤĊŤŤĠĠŔĠĠĊĠĊŤĠĊĊŔĠĠĠĊĊĊŤĠĠĊĠĊŔŤĠĠ	8406
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	8405	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	8346
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	8345	CTCTATCTTCCTTCTGGCCCTGCTCTTTGCTTGACTGTGCCCGCTTCGGCCTACCAAGT	8286
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	8285 983	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA  CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	8226 1042
Query Sbict	8225	CGAGGCCGATGCCATCCTGCACACTCCGGGGTGCGTCCCTTGCGTTCGTGAGGGCAA  CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCGTCCCTTGCGTTCGTGAGGGCAA	8166
Query	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1102
Sbjct	8165		8106
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	8105	CGCGACGCACCTCGACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGC	8046
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	8045	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACTGTTCACCTTCTC	7986
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTCTGGCCATATAAC	1282
Sbjct	7985	tcccaggcgccactggacgacgcaaggttgcaattgctctatcta	7926
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	7925	GGGTCACCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGACGGCGTTGGTAAT	7866
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	7865 1403	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGG  AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGAACTGGGCGAAGGTCCTGGTAGT	7806 1462
Query Sbjct	7805	AGTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGGAACTGGGCGAAGGTCCTGGTAGT	7746
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	7745		7686
Query	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCCAAGCAGAACATCCAACTGAT	1582
Sbjct	7685		7626
Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	7625	caacaccaacgcagttggcacctcaatagcacggccctgaactgcaatgatagcctcaa	7566
Query	1643	CACCGGCTGGTTAGCAGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	7565	ĊĂĊĊĠĠĊŦĠĠŦŦĠĠĊĀĠĠĠĊŦŦŦŦĊŦĀŦĊĀĊĊĀĊĀĀĠŦŦĊĀĀĊŦĊŦŦĊĀĠĠĊŦĠŦĊĊŦĠĀ	7506
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	7505	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	7446
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	7445	TGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG	7386

Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
Sbjct	7385	cĠĠŦĀŦŦĠŦĠĊĊĠĊĠĀĀĠĀĠŦĠŦĠŦĠŦĠĠĊĊĠĠŦĀŦĀŦŦĠĊŦŦĊĀĊŦĊĊĀĠĊĊĊĠŦ	7326
Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	7325	ĠĠŦĠĠŦĠĠĠāĊĠĠĊĊĠĠĊĠĊĠĊĠĊĊĊĠĊĊŦĠĊĠĠĠŦĠaāaāŦĠāŦāĊ	7266
Query	1943	GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	7265	ġĠACĠŦĊŦŦĊĠŦĊĊŦŦAAĊAAŦAĊĊĀĠĠĊĊĀĊĊĠĊŦĠĠĠĊĀAŦŦĠĠŦŦĊĠĠŦŦĠŦĀĊĊŦĠ	7206
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	7205	ĠĀTĠĀĀĊĪĊĀĀĊĪĠĠĀTĪĊĀĊĊĀĀĀĠĪĠĪĠĊĠĠĠĠĊĊŢĊĊŢŢĠŢĠŢĊĀŢĊĠĠĀĠĠĠĊ	7146
Query	2063	GGGCAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	7145	ĠĠĠĊāāĊāĊĊāĊĊĠĠāĊĠĊĊĊāĊŢĠāŢŢĠĊŢŢĊĊĠĊāāĠĊāŢĊĊĠĠāĊĠĊĊāĊāŢā	7086
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	7085	ctctcggtgcggctccggtccttggatcacacccaggtgcctggtcgactacccgtatag	7026
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	7025	ĠĊŦŦŦĠĠĊĀŦŦĀŦĊĊŦŦĠŦĀĊĊĀŦĊĀĀĊŦĀĊĀĊĠŦĠŦĀĀĀĀĀĀĀĊĠĠĠĠĠĠĠ	6966
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	6965	aggggtcgaacacaggctggaagctgcctgcaactggacgcggggcgaacgttgcgatct	6906
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACTGGCAGGT	2362
Sbjct	6905	ĠĠaaĠaĊaĠĠĠaĊāĠĠŦĊĊĠaĠĊŦĊaĊĊĊĠŦŦaĊŦĠĊŦĠaĊĊaĊŦaĊaĊāĠŦĠĠĊāĠĠŦ	6846
Query	2363	CCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	6845	cctcccgtgttccttcacaaccctaccagccttgtccaccggcctcatccacctacca	6786
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	6785	ĠAAĊATTĠŢĠĠAĊĠŢĠĊAĠŢĀĊŢŢĠŢĀĊĠĠĠĠŢĠĠĠĠŢĊAAĠĊAŢĊĠĊĠŢĊĊŢĠĠĠĊĊAŢ	6726
Query	2483	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTGCTGCAGACGCGCGCG	2542
Sbjct	6725	TÄÄĞTĞĞĞÄĞTÄCĞTCĞTTCTCTĞTTCCTĞCTTĞCÄĞÄCĞCĞCĞCĞ	6666
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	6665	ĊŤŤĠŤĠĠĂŤĠAŤĠĊŤĀĊŤĊĀŤĀŤĊĊĊĀĀĠĊĠĠĀĠĠĊĠĠĊŤŤŤĠĠĀĠĀĀĊĊŤĊĠŤĀĀŤĀĊŤ	6606
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	6605	TÄÄTĠĊĀĠĊĀTĊĊĊŦĠĠĊĊĠĠĠĀĊĠĊĀĊĠĠŤĊŤŦĠŦĀŤĊĊŦŤĊĊŦĊĠŦĠŤŤĊŦŤĊŤĠĊŤŤ	6546
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	6545	ŤĠĊAŤĠĠŤĂŤŤŤĠĂĂĠĠĠŤĂAĠŤĠĠĠŤĠĊĊĊĠĠĂĠĊĠĠŤĊŤĂĊAĊĊŦŤĊŤĂĊĠĠĠĂŤĠŤĠ	6486
Query	2723	GCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	6485	ġċċtċtċċtċċtġċtċċtġttġĠċĠttġċċcċaĠċĠĠĠĠĠţtaċĠċĠċtĠĠaċaċĠĠaĠĠt	6426
Query	2783	GGCCGCGTCGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
Sbjct	6425	ġĠĊĊĠĊĠŤĊĠŤĠŤĠĠĊĠĠŦĠŤŤĠŤŤĊŤĊĠŤĊĠĠĠŤŤĠĂŤĠĠĊĠĊŤĠĂĊŤĊŤĠŤĊAĊĊĀŤĀ	6366
Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	6365	ttacaagcgctatatcagctggtgcttgtggtggcttcagtattttctgaccagagtgga	6306
Query	2903	AGCGCAACTGCACGTGTGGGTTcccccccTCAACGTCCggggggggGCGCGATGCCGTCAT	2962
Sbjct	6305	AGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCCGAGGGGGGGCGCGACGCCGTCAT	6246

Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	6245	ĊŢŢŸĊŢĊŢŖŢŖŢŖŢŶĊŢŶĊŢŶĊŢŖŖŢŶŢŢŶŶŶŶŶŶŶŶŶŶŶ	6187
Query	3022	CCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGC	3081
Sbjct	6186	ccgtcttcggacccctttggattcttcaagccagtttgcttaaagtaccctactttgtgc	6127
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAG-CCGGAGGTCATTAC	3140
Sbjct	6126	ĠĊĠŦĊĊĀĀĠĠĊĊŦŦĊŦĊĊĠĠŦŦĊŦĠĊĠĊĠŦŦĀĠĊĠĊĠĠĀĀĠĀŦ–ĠĀŦĊĠĠĀĠĠĊĊĀŦŦĀĊ	6068
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
Sbjct	6067	ĠŤĠĊAAAŤĠĠŤĊAŤĊAŤŤAAĠŤŤAĠĠĠĠĊĠĊŤŤAĊŤĠĠĊAĊĊŤAŤĠŤŤŤAŤAAĊĊAŤĊŤĊ	6008
Query	3201	ACCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCA	3260
Sbjct	6007	actcctcttcgggactgggcacaacggcttgcgagatctggccgtggctgtagagcca	5948
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct	5947	ĠŤĊĠŤĊŤŤĊŤĊĊĊAAAŤĠĠĀĠĀĊĊAĀĠĊŤĊĀŤĊĀĊĠŤĠĠĠĠĠĠĠĀĠĀŤĀĊĊĠĊĊĠĊĠŤĠĊ	5888
Query	3321	GGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3380
Sbjct	5887	ggtgacatcatcaacggcttgcctgttccgcccgcaggggccgggagatactgctcggg	5828
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCATCACGGCGTACGCC	3440
Sbjct	5827	ccagccgarggaarggtctccaaggggtggaggttgctggcgcccatcacggcgtacgcc	5768
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbjct	5767	ĊAĠĊAĠAĊAAĠĠĠĠĊĊŦĊĊŦAĠĠĠŦĠĊAŦAAŦĊAĊĊAĠĊĊŦAAĊŦĠĠĊĊĠĠĠAĊAAAAAĊ	5708
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	5707	ĊAAĠŦĠĠAĠĠĠŦĠAĠĠŦĊĊĀĠAŦŦĠŦĠŦĊAAĊŦĠĊŦĠĊĊAAAĊĊŦŦĊĊŦĠĠĊAAĊĠŦĠĊ	5648
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	5647	atcaatggggtgtgctgctgctaccacgggccggaacgaggaccatcgcgtcaccc	5588
Query	3621	AAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCTGCCCGCT	3680
Sbjct	5587	AAGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCCTGGCCCGCT	5528
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	5527	ccgcaaggtagccgctcattgacaccctgcacttgcgctcctcggacctttacctggtc	5468
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	5467	ACGAGGCÁCGCCGÁTGTCÁTTCCCGTGCGCCGGCGGGGTGÁTAGCAGGGGCAGCCTGCTG	5408
Query	3801	TCGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	5407	ŤĊĠĊĊĊĠĠĊĊĊĂŤŤŤĊĊŤĂĊŤŤĠĂĂĂĠĠĊŤĊĊŤĊĠĠĠĠĠŢĊĊĠĊŤĠŤŤĠŤĠĊĊĊĊĠĊĠ	5348
Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	5347	ĠĠĠĊĀĊĠĊĠŦĠĠĠĊĀŦĀŦŦŦĀĠĠĠĊĊĠĊĠĠŦĠŦĠĊĀĊĊĊĠŦĠĠĀĠŦĠĠĊŦĀĀĠĠĊĠĠŦĠ	5288
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	5287	ĠAĊŦŦŦĀŦĊĊĊŦĠŦĠĠĀĠĀĀĊĊŦĀĠĀĠĀĊĀĀĊĊĀŦĠĀĠĠŦĊĊĊĊĠĠŦĠŦŦĊĀĊĠĠĀŦĀĀĊ	5228
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	5227	tcctctccaccagtagtgcccagagcttccaggtggctcacctccatgctccacaggc	5168
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	5167	AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	5108

Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	5107	CTCAACCCCTCTGTTGCTGCAACACTGGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	5048
Query Sbjct	4161 5047	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220 4988
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4987	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGTGCTCGGGGGGCGGTTATGACATAATA	4928
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4927	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4868
Query	4341	GACCAAGCAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4867	ĠAĊĊAAĠĊAĠAĠAĊŦĠĊĠĠĠĠĠĠĠĠĠĠĠĠĠĠĊŦĠĠŦĠĠŦĊĠĊĊAĊĊĠĊĊAĊĊĊĊĊĊĠĠĠĊ	4808
Query	4401	TCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4460
Sbjct	4807	TCCGTCACTGTGCCCCATCCCAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATC	4748
Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4747	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4688
Query	4521	TGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAAT	4580
Sbjct	4687	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4628
Query	4581 4627	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640 4568
Sbjct Query	4641	GTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGAC	4700
Sbjct	4567		4508
Query	4701	TGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAG	4760
Sbjct	4507		4448
Query	4761	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4820
Sbjct	4447	ACAATCACGCTCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGGCAGGACTGGCAGG	4388
Query	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGGG	4880
Sbjct	4387	GGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGGGG	4328
Query Sbjct	4881 4327	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4940 4268
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	5000
Sbjct	4267		4208
Query	5001	CATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5060
Sbjct	4207		4148
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	4147		4088
Query	5121	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGC	5180
Sbjct	4087		4028
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	4027	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	3968

Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
Sbjct	3967		3908
Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGCGTAT	5360
Sbjct	3907	ĠĀĠĠŦĊĠŦĊĀĊĠĀĠĊĀĊĊŦĠĠĠŦĠĊŦĊĠŦŦĠĠĊĠĠĊĠŦĊĊŦĠĠĊŦĠĊŦŦŦĠĠĊĊĠĊĠŦĀŦ	3848
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	3847	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA	3788
Query	5421 3787	ATTATACCTGACAGGGAGGTTCTCTACCAG-GAGTTCGATGAGATGGAAGAGTGCTCTCA	5479 3729
Sbjct Query	5480	ATCATACCTGACAGGGAAGTCCTCTACC-GAGAGTTCGATGAGATGGAAGAGTGCTCTCA GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	3728		3669
Query	5540	CGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAA	5599
Sbjct	3668		3609
Query	5600	CTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACA	5659
Sbjct	3608		3549
Query	5660	ATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	5719
Sbjct	3548	ATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTT	3489
Query	5720	TACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggg	5779
Sbjct	3488	ŤÁĊĂĠĊŤĠĊŤĠŤĊĂĊĊĂĠĊĊĊĂĊŤĂÁĊĊĂĊŤAĠĊĊĂĂĂĊĊĊŤĊĊŤĊŤŤĊĂÁĊĂŤĂŤŤĠĠĠ	3429
Query	5780	ggggTGGGTGCCTGCCCAGCTCGCCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGG	5839
Sbjct	3428	GGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTTGTGGGCGCTGG	3369
Query Sbjct	5840 3368	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899 3309
Query	5900	AGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGT	5959
Sbjct	3308		3249
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	3248		3189
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	3188		3129
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
Sbjct	3128	gcagtggatgaaccggctgatagccttcgcctccgggggaaccatgtttccccacgca	3069
Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	3068	CTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	3009
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	3008	AACCCAGCTCCTGAGGCGACTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	2949
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	2948 6320	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGTTGAGCGACTTTAAGAC	2889 6379
Query Sbjct	2888	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	2829
שטופנ	2000	07990717010110100100100010001001001001001001	∠ U ∠ J

Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	2828		2770
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	2769	ĊŢĠĀĠĀŢĊĀĊŢĠĠĀĊĀŢĠŢĊĀĀĀĀĀĊĠĠĠĀĊĠĀŢĠĀĠĠĀŢĊĠŢĊĠĠŢĊĊŢĀĠĠĀĊĊŢĠĊĀ	2710
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	2709	GGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGCCCCTGTACCCCCC	2650
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	2649 6619	TTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGA	2590 6677
Query Sbjct	2589	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	2531
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
Sbjct	2530		2471
Query	6738	TTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCAC	6797
Sbjct	2470		2411
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
Sbjct	2410		2351
Query	6858	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGA	6917
Sbjct	2350	TCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-	2292
Query	6918	GGG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCCAA	6976
Sbjct	2291	ĠĠĠĸŦĊĂĊĊĊĊĊĊĊĊĠĠĠĠĠĠĠĠĊĠĠĊŦĊĠĠĊŦĠĠĊĊĠĠĊŦĊĊĠĊĊĊĊĠĊĠĠĠĠĠĠ	2232
Query	6977	GGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCT	7036
Sbjct	2231	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	2172
Query	7037	GTGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct Ouerv	2171 7097	ATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT TCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGC	2112 7156
Sbjct	2111		2052
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
Sbjct	2051		1992
Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
Sbjct	1991	CTATAACCCCCGCTAGTGGAGACGTGGAAAAAGCCCCGACTACGAACCACCTGTGGTCCA	1932
Query	7277	TGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTAC	7336
Sbjct	1931	regetetetetetetetetetetetetetetetetetete	1872
Query	7337	GGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACAAAGTTT	7396
Sbjct	1871	GGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTT	1812
Query	7397	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	7456
Sbjct	1811	TGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGC	1752
Query	7457	CCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTTCCATGccccccTGGA	7516
Sbjct	1751	CCCTTCTGGCTGCCCCCCGACTCCGACGCTGAGTCCTATTCCTCCATGCCCCCCTGGA	1692

Query	7517	GGGGGAGCCTGGGGATCCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGC	7576
Sbjct	1691		1632
Query	7577	CGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCAC	7636
Sbjct	1631		1572
Query	7637	CCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACG	7696
Sbjct	1571		1512
Query	7697	CCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	7756
Sbjct	1511	TCACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGT	1452
Query	7757	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAA	7816
Sbjct	1451	CACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTTAA	1392
Query	7817	AGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGAC	7876
Sbjct	1391	agcagcgcgtcaaaagtgaaggctaacttgctatccgtagaggaagcttgcagcctgac	1332
Query	7877	GCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGC	7936
Sbjct	1331	ĠĊĊĊĊĊĊĊĊĊĠĊĠĊĊĠĠĊĊĠĠĠĊĠĠĠĊĠĠĊĠĠĊĠĠĊĠĠĊ	1272
Query	7937	CAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAAC	7996
Sbjct	1271	CAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAAC	1212
Query	7997	ACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGG	8056
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Query	8057	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAA	8116
Sbjct	1151	GGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGATCTGGGCGTGCGCGAAAA	1092
Query	8117	GATGGCCCTGTACGACGTGGTTAGC-AAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACG	8175
Sbjct	1091	GATGGCTTTGTACGACGTGGTTA-CAAAGCTCCCCTTGGCCGTGATGGGAAGCTCCTACG	1033
Query	8176	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	8235
Sbjct	1032	GATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGA	973
Query Sbjct	8236 972	AGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCG	8295 913
Query	8296	ACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGG	8355
Sbict	912		853
Query	8356	CCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATTCAAGGGGGG	8415
Sbjct	852		793
Query	8416	AAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACA	8475
Sbjct	792		733
Query	8476	CCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCA	8535
Sbjct	732		673
Query	8536	CCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGG	8595
Sbjct	672		613
Query	8596	ACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGccccccgggg	8655
Sbjct	612		553

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    492
                                                  433
Sbjct
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Query
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Sbjct
    8836
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                                                  8895
Query
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    12
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Length=9185
Score = 1.481e+04 bits (8021), Expect = 0.0 Identities = 8804/9192 (95%), Gaps = 14/9192 (0%)
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        60
Sbjct
    1
    83
        142
Query
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    61
                                                  120
Sbjct
        GTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAGGACGACCGGGTCCTTTCTTGGA
                                                  202
Query
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        Sbjct
    121
                                                  180
    203
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                                                  262
Query
        181
                                                  240
Sbjct
Query
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                                                  300
Sbjct
Query
    323
        GTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAA
                                                  382
        301
                                                  360
Sbjct
        383
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Sbjct
    361
                                                  420
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Query	443	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGA	502
Sbjct	421	TTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGA	480
Query	503 481	GCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAG	562 540
Sbjct Query	563	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	622
Sbict	541	GACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGC	600
Query	623	GGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCG	682
Sbjct	601		660
Query	683	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	742
Sbjct	661	TAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCAT	720
Query	743	GGGGTACATACCGCTCGTCGGCGCCCTCTTGGAGGCCCTGCCAGGGCCCTGGCGCATGG	802
Sbjct	721	ggggtacataccectcetcegceccctcttegaggececteccaegeccctegececateg	780
Query	803	CGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTT	862
Sbjct	781	ĊĠŦĊĊĠĠĠŦŦĊŦĠĠAAĠAĊĠĠĊĠŦĠAAĊŦAŦĠĊAAĊAĠĠĠAAĊĊŦŤĊĊŦĠĠŤŦĠĊŦĊŤŤŦ	840
Query	863	CTCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGT	922
Sbjct	841	ĊŤĊŤĂŤĊŤŤĊĊŤŤĊŤĠĠĊĊĊŤĠĊŤĊŤĊŤŤĠĊŤŤĠĠĊĊĠĊŤŤĊĠĠĊĊŤĂĊĊĂĂĠŤ	900
Query	923	GCGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	982
Sbjct	901	GCGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTA	960
Query	983 961	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAA	1042
Sbjct Query	1043	CGAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCCGTCCCTTGCGTTCGTGAGGGCAA  CGCCTCGAGGTGTTGGGTGGCCGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1020
Sbjct	1043	CGCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCC	1080
Query	1103	CACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGC	1162
Sbjct	1081		1140
Query	1163	CCTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTC	1222
Sbjct	1141	CCTCTACGTGGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACTGTTCACCTTCTC	1200
Query	1223	TCCCAGGCGCCACTGGACGACGCAAGACTGCAATTGTTCTATCTCTGCCGGCCATATAAC	1282
Sbjct	1201	tcccaggcgccactggacgacgcaaggttgcaattgctctatcta	1260
Query	1283	GGGTCATCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGT	1342
Sbjct	1261	GGGTCACCGCATGGCATGGGATATGATGATGAACTGGTCCCCTACGACGGCGTTGGTAAT	1320
Query	1343	AGCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGG	1402
Sbjct	1321	GGCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGG	1380
Query	1403	AGTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1462
Sbjct	1381	AGTCCTGGCGGCCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT	1440
Query	1463	GCTGCTGCTATTTGCCGGCGTCGACGCGGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1522
Sbjct	1441 1523	GCTGCTGCTATTTGCCGGCGTCGACGCGGGAAACCCACGTCACCGGGGGAAGTGCCGGCCA	1500 1582
Query Sbjct	1523	CACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGAT	1582
טטןטנ	TOOT	CHOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOT	T 0 0 0

Query	1583	CAACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAA	1642
Sbjct	1561	CAACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAA	1620
Query	1643	CACCGGCTGGTTAGCAGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGA	1702
Sbjct	1621	caccegciegciegcagegciiticiatcaccacaagiicaaciciitcaegcietciea	1680
Query	1703	GAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTA	1762
Sbjct	1681	GAGGCTAGCCAGCTGCCGACCCCTTACCGATTTTGACCAGGGCTGGGGCCCTATCAGTTA	1740
Query	1763	TGCCAACGGAAGCGGCCTCGACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTG	1822
Sbjct	1741	TGCCAACGGAAGCGGCCCGACCAGCGCCCCTACTGCTGGCACTACCCCCCAAAACCTTG	1800
Query	1823	TGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGT	1882
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Query	1883	GGTGGTGGGAACGACCGACAGGTCGGGCCGCCTACCTACAGCTGGGGTGCAAATGATAC	1942
Sbjct	1861	GGTGGTGGGAACGACCGACAGGTCGGGCGCCCCCCCTACAGCTGGGGTGAAAATGATAC	1920
Query	1943	GGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTG	2002
Sbjct	1921	ggacgrettegteettaacaataceaggeeaccgetgggeaatrggtteggttegtaeetg	1980
Query	2003	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGT	2062
Sbjct	1981	GATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGC	2040
Query	2063	GGGCAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATA	2122
Sbjct	2041	GGGCAACACACCCTGCACTGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATA	2100
Query	2123	CTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAG	2182
Sbjct	2101	CTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTCGACTACCCGTATAG	2160
Query	2183	GCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGG	2242
Sbjct	2161	GCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCAGGATGTACGTGGG	2220
Query	2243	AGGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCT	2302
Sbjct	2221	AGGGGTCGAACACAGGCTGGAAGCTGCAACTGGACGCGGGGCGAACGTTGCGATCT	2280
Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCACACTGGCAGGT	2362
Sbjct	2281	ggaagacagggacaggtccgagctcaccccgttactgctgaccactacacagtggcaggt	2340
Query	2363	CCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCA	2422
Sbjct	2341	cctcccgtgttccttcacaaccctaccagccttgtccaccggcctcatccacctacca	2400
Query	2423	GAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCAT	2482
Sbjct	2401	GAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGCCAT	2460
Query	2483	TAAGTGGGAGTACGTCGTTCCTGTTCCTTCTGCTTGCAGACGCGCGCG	2542
Sbjct	2461	TAAGTGGGAGTACGTCGTTCTCTGTTCCTTGCTTGCAGACGCGCGCG	2520
Query	2543	CTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACT	2602
Sbjct	2521	CTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGCTTTGGAGAACCTCGTAATACT	2580
Query	2603	CAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2662
Sbjct	2581	TAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	2640
Query	2663	TGCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTG	2722
Sbjct	2641	TGCATGGTATTTGAAGGGTAAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTG	2700

Query	2723	GCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGT	2782
Sbjct	2701	ĠĊĊŦĊŦĊĊŦĠĊŦĠĊŦĠŦŦĠĠĊĠŦĠĊĊĊĊĂĠĊĠĠĠĊĠŦĀĊĠĊĠĊŦĠĠĀĊĀĊĠĠĀĠĠŦ	2760
Query	2783	GGCCGCGTCGTGGCCGCGTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATA	2842
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Query	2843	TTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGA	2902
Sbjct	2821	TTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTCAGTATTTTCTGACCAGAGTGGA	2880
Query	2903	AGCGCAACTGCACGTGTGGGTTcccccccTCAACGTCCggggggggGCGCGATGCCGTCAT	2962
Sbjct	2881	AGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCCGAGGGGGGGCGCGACGCCGTCAT	2940
Query	2963	CTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGG	3021
Sbjct	2941	CTTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGG	2999
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Sbjct	3000	CCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGC	3059
Query	3082	GCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTAC	3140
Sbjct	3060	GCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTAC	3118
Query	3141	GTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTC	3200
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Query	3201	ACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTAAACCA	3260
Sbjct	3179	ACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTAGAGCCA	3238
Query	3261	GTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGC	3320
Sbjct Query	3239 3321	GTCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCTGCC	3298 3380
Sbjct	3299	GGTGACATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGG	3358
Query	3381	CCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCC	3440
Sbjct	3359		3418
Query	3441	CAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAAC	3500
Sbict	3419		3478
Query	3501	CAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGC	3560
Sbjct	3479		3538
Query	3561	ATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCC	3620
Sbjct	3539		3598
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Sbjct	3599		3658
Query	3681	CCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTC	3740
Sbjct	3659		3718
Query	3741	ACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTT	3800
Sbjct	3719		3778
Query	3801	TCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCG	3860
Sbjct	3779		3838

Query	3861	GGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTG	3920
Sbjct	3839	ĠĠĠĊĀĊĠĊĠŦĠĠĠĊĀŦĀŦŦŦĀĠĠĠĊĊĠĊĠĠŦĠŦĠĊĀĊĊĊĠŦĠĠĀĠŦĠĠĊŦĀĀĠĠĊĠĠŦĠ	3898
Query	3921	GACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAAC	3980
Sbjct	3899	ĠĂĊŤŤŤĂŤĊĊĊŤĠŤĠĠĂĠĂĂĊĊŤĂĠĀĠĂĊĂĂĊĊĂŤĠĂĠĠŤĊĊĊĊĠĠŤĠŤŤĊĂĊĠĠĂŦĂĀĊ	3958
Query	3981	TCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGC	4040
Sbjct	3959	TCCTCTCCACCAGTAGTGCCCCAGAGCTTCCAGGTGGCTCACCTCCATGCTCCCACAGGC	4018
Query	4041	AGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTG	4100
Sbjct	4019	AGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTA	4078
Query	4101	CTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGG	4160
Sbjct	4079	CTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGG	4138
Query	4161	GTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4220
Sbjct	4139	ATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTAC	4198
Query	4221	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATA	4280
Sbjct	4199	TCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGGCGGTTATGACATAATA	4258
Query	4281	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4340
Sbjct	4259	ATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTT	4318
Query	4341	GACCAAGCAGAGACTGCGGGGGGGGGGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGC	4400
Sbjct	4319	GACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACCGCCACCCCTCCGGGC	4378
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Query	4461	CCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTC	4520
Sbjct	4439	CCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAGACATCTCATCTTC	4498
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Sbjct	4499	TGTCATTCAAAGAAGAAGTGCGACGAACTCGCCGCAAAGCTGGTCGCATTGGGCATCAAT	4558
Query	4581	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTC	4640
Sbjct	4559	GCCGTGGCCTACTACCGCGGTCTTGACGTGTCCGTCATCCCGACCAGCGGCGATGTTGTC	4618
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Query Sbjct	4679	IGCAACACGIGIGICACICAGACAGICGAIIICAGCCIIGACCCIACCIIIIACCAIIGAG	4780
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Sbjct	4739	ACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGG	4798
_	4821	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGAC	4880
Query Sbjct	4799	GGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGAC	4858
_	4799	TCGTCCGTCCTCTGTGAGTGCTATGACGCGGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4858
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Sbjct			5000
Query	4941	GAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGAC	
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Sbjct	4979	CATCTTGAATTTTGGGAGGGCGTCTTTACAGGCCTCACTCA	5038
Query	5061	TCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5120
Sbjct	5039	TCCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCTGGTAGCGTACCAAGCCACCGTG	5098
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Sbjct	5099	TGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATTCGC	5158
Query	5181	CTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5240
Sbjct	5159	CTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAAT	5218
Query	5241	GAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCATG	5300
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Query	5301	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGCGTCTTGGCCTCTTGGCCGCGTAT	5360
Sbjct	5279	GAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGCGTCCTGGCTGCTTTGGCCGCGTAT	5338
Query	5361	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCA	5420
Sbjct	5339	TGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCA	5398
Query	5421	ATTATACCTGACAGGAGGTTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCA	5479
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Query	5480	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCT	5539
Sbjct	5458	GCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCT	5517
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Sbjct	5518	CGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCTGCTGTCCAGACCAA	5577
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Sbjct	5698	TACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAACCCTCCTCTTCAACATATTGGG	5757
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Sbjct	5758	GGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTTGTGGGCGCTGG	5817
Query	5840	CCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGC	5899
Sbjct	5818	CTTAGCTGGCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCATAGACATCCTTGC	5877
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Sbjct	5878	AGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGT	5937
Query	5960	CCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGT	6019
Sbjct	5938	CCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGT	5997
Query	6020	AGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6079
Sbjct	5998	AGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGT	6057
Query	6080	GCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA	6139
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Query	6140	CTACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGT	6199
Sbjct	6118	ĊŢŖĊĠŢĠĊĊĠĠŖĠĠĠĠŖŢĠĊŖĠĊŢĠĊĊĠĊĠŢĊŖĊŢĠĊĊĸŢŖĊŢĠĠĊŖĠĊĊŢĊŖĊŢĠŢ	6177
Query	6200	AACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTC	6259
Sbjct	6178	aacccagctcctgaggcgactgcaccagtggataagctcggagtgtaccactccatgctc	6237
Query	6260	CGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGAC	6319
Sbjct	6238	ĊĠĠŦŦĊĊŦĠĠĊŦāĀĠĠĠĀĊĀŤĊŦĠĠĠĀĊŦĠĠĀŦĀŦĠĊĠĀĠŦĠŦŦĠĀĠĊĠĀĊŦŦŦĀĀĠĀĊ	6297
Query	6320	CTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCG	6379
Sbjct	6298	ctgctaaaagctaagctcatgccacagctgcctgggatcccctttgtgtctgccagcg	6357
Query	6380	CGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAG	6438
Sbjct	6358	ĊĠĠĠŦŔŦŔŔĠĠĠĠĠŦĊŦĠĠĊĠŔĠŦĠ~ĠŔĊĠĠĊŔŦĊŔĊŔĊŔĊŦĠĊĊŔĊŦĠŦĠĠŔĠ	6416
Query	6439	CTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCA	6498
Sbjct	6417	ĊŢĠĀĠĀŢĊĀĊŢĠĠĀĊĀŢĠŢĊĀĀĀĀĀĊĠĠĠĀĊĠĀŢĠĀĠĠĀŢĊĠŢĊĠŢĊĊŢĀĠĠĀĊĊŢĠĊĀ	6476
Query	6499	GGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCC	6558
Sbjct	6477	ġĠāàĊāŤĠŤĠĠāĠŤĠĠĠāĊĊŤŤĊĊĊĊāŤŤāāŤĠĊĊŤāĊāĊĠĠĠĊĊĊĊŤĠŤāĊĊĊĊĊ	6536
Query	6559	TTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGTGTCTGCAGAGGAATACGTGGAGA	6618
Sbjct	6537	ticctgcgccgaactacacgttcgcgctatggagggtgtctgcagaggaatatgtggaga	6596
Query	6619	TAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGC	6677
Sbjct	6597	taaggcaggtgggggacttccactacgtga-cgggtatgactactgacaatctcaaatgc	6655
Query	6678	CCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGG	6737
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Sbjct	6716	ŤŤŤĠĊĠĊĊĊĊĊŤĠĊĀĀĠĊĊĊŤŤĠĊŤĠĊĠĠĠĀĠĠĀĠĠŤĀŤĊĀŤŤĊĀĠĀĠŤĀĠĠĀĊŤĊĊĀĊ	6775
Query	6798	GAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACG	6857
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Sbjct	6955	GGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCT	7014
Query	7037	GTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGAT	7096
Sbjct	7015	ATGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGAT	7074
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Sbjct	7075	ŤĊŤĠĠĂĊŤĊĊŤŤĊĠĂŤĊĊĠĊŤŤĠŤĠĠĊĠĠĠĀĠĠĠĠĠĠĠĠĠĠ	7134
Query	7157	AGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGA	7216
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Query	7217	CTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCA	7276
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Sbjct	241	GCGAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG	
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Sbjct	301	GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC	360
Query	361	CTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG	420
Sbjct	361	CTCAAAGAAAAACCAAACGTAACACCAACCGCCGCCCACAGGACGTCAAGTTCCCGGGCG	420
Query	421	GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC	480
Sbjct	421	ĠŦĠĠŦĊĀĠĀŦĊĠŦŦĠĠŦĠĠĀĠŦŦŦĀĊĊŦĠŦŦĠĊĊĠĊĠĊĀĠĠĠĊĊĊĊĀĠĠŦŦĠĠĠŦĠŦĠĊ	480
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Sbjct	541	AGGCTCGCCGACCCGAGGGCAGGGCCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG	600
Query	601	GCAATGAGGG-TTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGC	659
Sbjct	601		659
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Sbjct	720		779
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Query	840	GGGAACCTT-CCTGGTTGCTCTTTCTCTATCTTCCTTC-TGGCCCTGCTCTCTTGCCTGA	897
Sbjct	840	GGGAA-CTTGCCCGGTTGCTCTTTCTCTATCTTCC-TCTTGGCTCTGCTGTCCTGTTTGA	897
Query	898	CTGTGCCC-GCTTCAGCCTACCAAGTGCGCAA-TTCCTCGGGGCTTTACCATGTCACCAA	955
Sbjct	898	CCAT-CCCAGCTTCCGCTTATGAAGTGCGCAACGT-GTCCGGGATATACCATGTCACGAA	955
Query	956	TGATTGC-CCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGG	1014
Sbjct	956	CGACTGCTCC-AACTCAAGCATTGTGTATGAGGCAGCGGACGTGATCATGCATACTCCCG	1014
Query	1015	GGTGTGT-CCCTTGCGTTC-GCGAGGGTAAC-GCCTCGAGGTGTTGGGTGGCGGTGACCC	1071
Sbjct	1015	GGTGCGTGCCC-TGTGTTCAG-GAGGGTAACAG-CTCCCGTTGCTGGGTAGCGCTCACTC	1071
Query	1072	CCACGGTGGCCACCAGGGACGGCAAAC-TCCCCACAACG-CAGCTTCGACGTCATATCGA	1129
Sbjct	1072		1129
Query	1130	TC-TGCTTGTCGGGAGC-GCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGG	1187
Sbjct	1130		1187
Query	1188	TCTGTCTTT-CTTGT-TGGTCAACTGTTTACCTTCTCCC-CAGGCGCCACTG-GACGA-	1242
Sbjct	1188		1242
Query	1243	CGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGG	1302
Sbjct	1243		1302

Query	1303 1303	ATATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGTAG-CTCAGCTGCTCCGGATC	1361 1361
Sbjct	1362		1421
Query Sbjct	1362	CCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCG	1421
Query	1422	TA-TTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT-GCTGCTGCTATTTGCCG	1479
Sbjct	1422		1479
Query	1480	GCGTCGACGCGGAAACCCACGTC-ACCGGGGGA-AAT-GCCGGCCGCACCACGGCTGGGC	1536
Sbjct	1480	GCGTTGACGGGGAGACCCAC-ACGA-C-GGGGAGGGTGGCCGGCCACACCACCTCCGGG-	1535
Query	1537	TTGTTGGTCTCCTT-ACACCAGGCGCCAAGCAGAACATCCAAC-TGATCAACACCAAC	1592
Sbjct	1536	TT-CACGTC-CCTTTTCTCATCTGGGGCGTCTCAGAAAATCCAGCTTG-TGAATACCAAC	1592
Query	1593	GGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCT-TAACACCGGCTG	1651
Sbjct	1593	GGCAGCTGGCACATCAACAGGACTGCCCTAAATTGCAATGACTCCCTCC	1651
Query	1652	GTTAGCAGGGCTCTTCTATC-AACACAAATTCAACTCTTCAGGCTGTCCTGAGAGGTTGG	1710
Sbjct	1652	ctttgccgcgctgtttta-cgcacacacagttcaactcgtccgggtgcccggagcgcatgg	1710
Query	1711	CCAGCTGCCGACGCC-TT-ACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTATGCCAA	1768
Sbjct	1711	ccagctgccg-ccccattgactg-gttcgcccaggggtggggccccatcacctatactaa	1768
Query	1769	-CGGAAGCGGCCTC-GA-CGA-ACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTGTG	1824
Sbjct	1769	gcctaa-cag-ctcggatc-aga-ggccttattgctggcattacgcgcctcgaccgtgtg	1824
Query	1825	GCATTGTGCCCGCAAAG-AGCGTGTGTGGCCCGGTATATTGCTTCACTCCC-AGCCCCGT	1882
Sbjct	1825	ĠŢĠŢĊĠŢŸĊĊĠĊĠŢĊĠĊĠĠĠĠŢĠŢĠŢĠŢĊĊĠĠŢĠŢŸŢŢĊŢŢŢĊĠĊĠĊĠŢĠŢ	1882
Query	1883	GGTGGTGGGAACGACCGA-CAGGTCGGGCG-CGCCTACCTACAGCTGGGGTGCA-AATGA	1939
Sbjct	1883	rgtggtgggaccaccgatc-gttccggtgtc-cctacgtatagctgggg-ggagaatga	1939
Query	1940	TACGGATGT-CTTCGTCCTTAACAACAC-CAGGCCACCGCTGGGCAATTGGTTCGGTTGT	1997
Sbjct	1940	gàcagacgtgatgc-tcctcaacaacacgc-gtccgccacaaggcaactggttcggctgt	1997
Query	1998	ACCTGGATGAACTCA-ACTGGATTCACCAAAG-TGTGCGGAGCG-CCCCTTGTGTCAT	2053
Sbjct	1998	ACATĠĠĀŢĠĀĀ-Ţ-ĀGŢĀĊŢĠĠĠŢŢĊĀ-ĊŢĀĀĠĀCĠŢĠĊĠĠĀĠ-ĠŢĊĊĊĊĠŢĠŢĀĀĊĀŢ	2053
Query	2054	CGGAGGGGTGGGCAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGA	2113
Sbjct	2054	ĊĠĠĠĠĠĠĊĊĠĠŦĂĂĊĊĠĊĂĊĊŤŤĠĂŤĊŤĠĊĊĊĂĊĠĠĂĊŤĠĊŤŤĊĊĠĠĂĂĠĊĂĊĊĊĊĠĂ	2113
Query	2114	AGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATT-ACACCCAGGTGCATGGTCGACT	2172
Sbjct	2114	GĠĊŦĂĊŦŤĂĊAĊAAAAŤĠŦĠĠĊŤĊĠĠĠĠĊĊĊŤĠĠ~ŤŤĠĂĊĂĊĊŦĂĠĠŤĠĊĊŤAĠŤAĠĂĊŤ	2172
Query	2173	ACCCGTATAGGCTTTGGCACTATCCTTGTAC-CATCAATTACACCATATTCAAAGTCAGG	2231
Sbjct	2173	acccatacaggctttggcactacccctgcactc-tcaatttttccatctttaaggttagg	2231
Query	2232	ATGTACGTGGGAGGG-GTCGAGCACAGGCTGGAA-GCGGCCTGCAACTGGACGCGGGCCG	2289
Sbjct	2232	atgtatgtggg-gggcgtggagcacaggct-caatgccgcatgcaattggactcgaggag	2289
Query	2290	AACGCTGTGATC-TGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACC	2348
Sbjct	2290	agcgctgt – aacttggaggacagggataggtcagaactcagcccgctgctgctgtctaca	2348
Query	2349	ACACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCACCGGCCTC	2408
Sbjct	2349	acagagigécagatacigéceigigétitéaceacéciacegécitiatécacigétitig	2408

Query	2409	ATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGC-AT	2467
Sbjct	2409	atccatctccatcagaacatcgtggacgtgcaatacctgtacggtgtagggtc-agcgtt	2467
Query	2468	CG-CGTCCTGGGCCATTAAGTGGGAGTACGTCGT-TCTCCTGTTCCTTCTGCTGCAGAC	2525
Sbjct	2468	TĠTĊ-TĊĊTTTĠĊAATCAAATĠĠĠAĠŤAĊATĊCTĠŤ-ŤĠĊŤTŤŤĊĊŤŤĊŤĊĊŤĠĠĊAĠAĊ	2525
Query	2526	GCGCGCGTCTGCT-CCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTT	2584
Sbjct	2526	GCGCGCGTGTG-TGCCTGCTTGTGGATGATGCTGCTGATAGCCCAGGCTGAGGCCGCCTT	2584
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGA-CGCACGGTCTTGTGTCCT	2643
Sbjct	2585	AGAGAACTTGGTGGTCCTCAATGCGGCGTCCGTGGCC-GGAGCGCATGGTATTCTCTCCT	2643
Query	2644	TCCTCGTGTTCTTCTGCTTGCGTGGTATC-TGAAGGGTAGG-TGGGTGCCCGGAGCGGT	2701
Sbjct	2644	TTCTTGTGTTCTTCTGCGCCGCCTGGTA-CATTAAGGGCAGGCTGGCT-CCTGGGGCGG-	2700
Query	2702	C-TACGCCCTCTACGG-GATGTGGCCTCTCCTCCTGCTGCTGCTGCGTTGCC-TCAGCG	2758
Sbjct	2701	CGTATGCTTTTTATGGCG-TATGGCCGCTGCTCCTGCTCCTACTGGCGTTACCACCA-CG	2758
Query	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTGTTCTTGTCGGGTT	2818
Sbjct	2759	AGCATATGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818
Query	2819	AATGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819	AATGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Query	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTcccccccCtCAACGT	2938
Sbjct	2879	TCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGT	2938
Query	2939	CCggggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939	CCGGGGGGGGCGCGATGCCGCCATCTTACTCATGTGTAGTACACCCGACCCTGGTATT	2998 3058
Query Sbjct	2999 2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Ouerv		GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179		3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239		3298
Query	3299	GGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299		3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359		3418
Query	3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478
Sbjct	3419		3478
Query	3479	CCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Sbjct	3479		3538

Query	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539	ccaaaccttcctggcaacgtgcatcaatggggtatgctggactgtctaccacggggccgg	3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599	aacgagaccatcgcatcaccaagggtcctgtcatccagatgtataccaatgtggacca	3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659	AGACCTTGTGGGCCTGCCCCCCCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Query	4139 4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198 4198
Sbjct Querv	4139	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGCAAGTTCCTTGCCGACGGCGGGTGCTC  CACTGGCAGCCCCATCACGTACTCCACCTACGCAAGTTCCTTGCCGACGCGGGTGCTC	4258
Ouerv	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACTCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGTGCT	4378
Sbjct	4319		4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379		4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439		4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499		4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4618
Sbjct	4559		4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619		4678

Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct	4679	ĊĠĂĊŦŦĊĠĂĊŦĊŦĠŦĠĂŦĂĠĂĊŦĠĊĀĀĊĀĊĠŦĠŦĠŦĊĀĊŦĊĀĠĀĊĀĠŦĊĠĀŦŦŦĊĀĠĊĊŦ	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	ŤĠĂĊĊĊŤĂĊĊŤŤŤĂĊĊĂŤŤĠĂĠĂĊĂĂĊĊĂĊĠĊŤĊĊĊĊĆĀĠĠĂŤĠĊŤĠŤĊŤĊĊĀĠĠĂĊŤĊĀ	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Query	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	ĊĂĠĂĊŤĠĠĠĊĠĊŤĠŤŤĊĂĠĂĂŤĠĂĂĠŤĊĂĊĊĊŤĠĂĊĠĊĂĊĊĊĂĂŤĊĂĊĊĂĂĂŤĂĊĂŤĊĂĊ	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGA	5458
Sbjct	5399	ĊĠŦĊŦŦĠŦĊĊĠĠĠĂĂĠĊĊĠĠĊĀĂŦŦĂŦĂĊĊŦĠĂĊĀĠĠĠĀĠĠŦŦĊŦĊŦĂĊĊĀĠĠĀĠŦŦĊĠĀ	5458
Query	5459	TGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGA	5518
Sbjct	5459	TGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGA	5518
Query	5519	GCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTAT	5578
Sbjct	5519	GCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTAT	5578
Query	5579	CACCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTG	5638
Sbjct	5579	ĊĂĊĊĊĊŢĠĊŢĠŢĊĊĂĠĂĊĊĂĂĊŢĠĠĊĀĠĂĂĂĊŢĊĠĂĠĠŢĊŢŢŢŢĠĠĠĊĠĂĂĠĊĂĊĂŢĠŢĠ	5638
Query	5639	GAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGC	5698
Sbjct	5639	ĠAATTTĊATĊAĠŦĠĠĠATAĊAATAĊŦŦĠĠĊĠĠĠĊĊŦĠŦĊAAĊĠĊŦĠĊŦĠĠŦAAĊĊĊĠĊ	5698
Query	5699	CATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAAC	5758
Sbjct	5699	cattgcttcattgatggcttttacagctgccgtcaccagcccactaaccactggccaaac	5758
Query	5759	CCTCCTCTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGC	5818
Sbjct	5759	CCTCCTCTTCAACATATTGGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCGC	5818

Query	5819	TACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGAA	5878
Sbjct	5819	TACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAA	5878
Query	5879	GGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATT	5938
Sbjct	5879	ĠĠŦĊĊŦĊĠŦĠĠĀĊĀŦŦĊŦŦĠĊĀĠĠĠŦĀŦĠĠĊĠĠĠĠĠĠĠĠĠ	5938
Query	5939	CAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCAT	5998
Sbjct	5939	ĊAAĠATĊĀTĠĀĠĊĠĠŦĠĀĠĠŤĊĊĊĊŤĊĊĀĊĠĠĀĠĠĀĊĊŤĠĠŤĊĀĀŤĊŦĠĊŤĠĊĊĊĠĊĊĀŢ	5998
Query	5999	CCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGT	6058
Sbjct	5999	cctctcgcctggagcccttgtagtcggtgtggtctgcgcagcaatactgcgccggcacgt	6058
Query	6059	TGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG	6118
Sbjct	6059	TĠĠĊĊĊĠĠĠĊĠAĠĠĠĠĠĊĀĠŤĠĊAAŤĠĠAŤĠAAĊĊĠĠĊŤAAŤAĠĊĊŤŤĊĠĊĊŤĊĊĊĠĠĠĠ	6118
Query	6119	GAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6178
Sbjct	6119	ĠAACCATĠTTTCCCCCACĠCACTACĠTĠCCĠĠAĠAĠCĠATĠCAĠCCĠCĠCĠCĠ	6178
Query	6179	CATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTC	6238
Sbjct	6179	ĊATACTCAĠCAĠCCTCACTĠTAACCCAĠCTCCTĠAĠĠCĠACTĠCATCAĠTĠĠATAAĠCTC	6238
Query	6239	GGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGA	6298
Sbjct	6239	ġĠĀĠŦĠŦĀĊĊĀĊŦĊĊĀŦĠĊŦĊĊĠĠŦŦĊĊŦĠĠĊŦĀĀĠĠĠĀĊĀŦĊŦĠĠĠĀĊŦĠĠĀŦĀŦĠĊĠĀ	6298
Query	6299	GGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGAT	6358
Sbjct	6299	ggtgctgagcgactttaagacctggctgaaagccaagctcatgccacaactgcctgggat	6358
Query	6359	TCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCA	6418
Sbjct	6359	tccctttgtgtcctgccagcgcggtatagggggtctggcgaggagacggcattatgca	6418
Query	6419	CACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGAT	6478
Sbjct	6419	ĊACTCĠĊŢĠĊĊAĊŢĠŢĠĠAĠĊŢĠAĠAŢĊAĊŢĠĠAĊAŢĠŢĊAAAAAĊĠĠĠAĊĠAŢĠAĠĠAŢ	6478
Query	6479	CGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACAC	6538
Sbjct	6479	ĊĠŦĊĠĠŦĊĊŦĂĠĠĂĊĊŦĠĊĀĠĠĂĂĊĂŦĠŦĠĠĀĠŦĠĠĠĀĊĠŦŦĊĊĊĊĂŦŦĂĂĊĠĊĊŦĂĊĂĊ	6538
Query	6539	CACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTC	6598
Sbjct	6539	CÁCGGGCCCCTGTÁCTCCCCCTTCCTGCGCCGÁACTATÁAGTTCGCGCTGTGGÁGGGTGTC	6598
Query	6599	TGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGAC	6658
Sbjct	6599	ŤĠĊĀĠĀĠĠĀĀŤĀĊĠŤĠĠĀĠĀŤĀĀĠĠĊĠĠĠŤĠĠĠĠĠĀĊŤŤĊĊĀĊŤĀĊĠŤĀŤĊĠĠĠŤĀŤĠĀĊ	6658
Query	6659	TACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGA	6718
Sbjct	6659	TÁCTGÁCÁATCTTÁAATGCCCGTGCCÁGATCCCATCGCCCGAATTTTTCÁCÁGAATTGGA	6718
Query	6719	CGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATC	6778
Sbjct	6719	ĊĠĠĠĠŦĠĊĠĊĊŦĂĊĂĊĂĠĠŦŦŦĠĊĠĊĊĊĊŦŦĠĊĀĂĠĊĊĊŦŦĠĊŦĠĊĠĠĠĀĠĠĀĠĠŦĀŦĊ	6778
Query	6779	ATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACC	6838
Sbjct	6779	attcagagtaggactccacgagtacccggtggggtcgcaattaccttgcgagcccgaacc	6838
Query	6839	GGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6898
Sbjct	6839	gacgtagccgtgttgacgtccatgctcactgatccctccc	6898
Query	6899	CGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCT	6958
Sbjct	6899	CGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCT	6958

Query	6959	GTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCT	7018
Sbjct	6959	gtécgétécatététéaaggéaaéttgéaéégééaaééatgaétéééétgaégét	7018
Query	7019	CATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTC	7078
Sbjct	7019	ĊĂŦŔĠŔĠĠĊŦŔŔĊĊŦĊĊŦĠŦĠĠŔĠĠĊŔĠĠŔĠŔŦĠĠĠĊĠĠĊŔŔĊŔŦĊŔĊĊŔĠĠĠŦŦĠŔĠŦĊ	7078
Query	7079	AGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCG	7138
Sbjct	7079	AGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCG	7138
Query	7139	GGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCC	7198
Sbjct	7139	GGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCC	7198
Query	7199	CGTCTGGGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTA	7258
Sbjct	7199	CGTCTGGGCGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTA	7258
Query	7259	CGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCC	7318
Sbjct	7259	CGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCC	7318
Query	7319	GCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGA	7378
Sbjct	7319	GCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGA	7378
Query	7379	GCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGAC	7438
Sbjct	7379	GCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGAC	7438
Query	7439	AACATCCTCTGAGCCCGCCCCTTCTGGCTGaaaaaaaGACTCCGACGTTGAGTCCTATTC	7498
Sbjct	7439	AACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTC	7498
Query	7499	TTCCATGaaaaaaTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTC	7558
Sbjct	7499	TTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTC	7558
Query	7559	GACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCCAATGTCTTATTCCTG	7618
Sbjct	7559	GACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTG	7618
Query	7619	GACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACT	7678
Sbjct	7619	GACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACT	7678
Query	7679	GAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTG	7738
Sbjct	7679		7738 7798
Query	7739 7739	CCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGA	7798
Sbjct Query	7799	CGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGA	7858
Sbjct	7799	CGTGCTCAAGGAGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGA	7858
Query	7859	GGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAA	7918
Sbjct	7859		7918
_	7919	AGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCT	7978
Query Sbjct	7919	AGACGICCGIIGCCAIGCCAGAAAGGCCGIAGCCCACAICAACICCGIGIGGAAAGACCI	7978
Query	7919	TCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTG	8038
Sbjct	7979	TCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTG	8038
Query	8039	CGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGG	8098
Sbjct	8039	CGTTCAGCCTGAGAAGGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGG	8098
טטטפנ	0033	COTIONACTIONAL TERMINATION OF THE TERMINATION OF TH	0090

Query	8099	CGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGT	8158
Sbjct	8099	ĊĠŦĠĊĠĊĠŦĠŦĠĊĠĂĠĂĠĂŦĠĠĊĊĊŦĠŦĂĊĠĂĊĠŦĠĠŤŦĂĠĊĂĂĠĊŦĊĊĊĊĊŦĠĠĊĊĠŦ	8158
Query	8159	GATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCA	8218
Sbjct	8159	GATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCA	8218
Query	8219	AGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTC	8278
Sbjct	8219	AGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTC	8278
Query	8279	CACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGA	8338
Sbjct	8279	CACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGA	8338
Query	8339	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCT	8398
Sbjct	8339	ccccaagcccgcgtggccatcaagtccctcactgagaggctttatgttgggggccctct	8398
Query	8399	TACCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGAC	8458
Sbjct	8399	TACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGAC	8458
Query	8459	AACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGC	8518
Sbjct	8459	aactagctgtggtaacaccctcacttgctacatcaaggcccgggcagcctgtcgagccgc	8518
Query	8519	AGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAG	8578
Sbjct	8519	AGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAG	8578
Query	8579	TGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTA	8638
Sbjct	8579	TGCGGGGGTCCAGGAGGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTA	8638
Query	8639	CTCCGcccccccggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATG	8698
Sbjct	8639	ctccgccccccggggacccccacaaccagaatacgacttggagcttataacatcatg	8698
Query	8699	CTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCG	8758
Sbjct	8699	ctcctccaacgtgtcagtcgcccacgacggcgctggaaagagggtctactaccttacccg	8758
Query	8759	TGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAA	8818
Sbjct	8759	rgaccctacaaccccctcgcgagagccgcgrgggagacagcaagacacactccagtcaa	8818
Query	8819	TTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGAT	8878
Sbjct	8819	ttcctggctaggcaacataatcatgtttgccccacactgtgggcgaggatgatactgat	8878
Query	8879	GACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGA	8938
Sbjct	8879	ĠAĊĊĊĂŤŤĊŤŤŤĂĠĊĠŤĊĊŤĊĂŤĂĠĊĊĂĠĠĠĂŤĊĂĠĊŤŤĠĂĂĊĂĠĠĊŤĊŤŤĂĂĊŤĠŤĠĂ	8938
Query	8939	GATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACT	8998
Sbjct	8939	ĠATĊTAĊĠĠAĠĊĊŦĠĊŦAĊŦĊĊAŦAĠAAĊĊAĊŦĠĠAŦĊŦAĊĊŦĊĊAAŦĊAŤŦĊAAAĠAĊŦ	8998
Query	8999	CCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGC	9058
Sbjct	8999	ccatggcctcagcgcattttcactccacagttactctccaggtgaaatcaatagggtggc	9058
Query	9059	CGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAG	9118
Sbjct	9059	CGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAG	9118
Query	9119	CGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTT	9178
Sbjct	9119	CGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCTATATGTGGCAAGTACCTCTT	9178
Query	9179	CAACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGGC	9238
Sbjct	9179	CAACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGA	9238

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Query
         9239
                 CTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCA
                                                                                                       9298
                  9239
                 CTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCA
                                                                                                       9298
Sbjct
                 TGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTA
         9299
                                                                                                       9358
Query
                 9299
                                                                                                       9358
Sbjct
Query
         9359
                 CCTCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTG
                                                                                                       9418
                 9359
                                                                                                       9418
Sbjct
         9419
                                                                                                       9478
Query
                  ar{v} this translation is the state of t
                  Sbjct
         9419
                 9478
         9479
                  octttetttteeetttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTG
                                                                                                       9538
Query
                 9479
Sbjct
                                                                                                       9538
         9539
                 AAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATG
                                                                                                       9598
Query
                  ÄÄÄÄĞTCCĞTĞÄĞCCĞCATĞACTĞCAĞAĞAĞTĞCTĞATACTĞĞCCTCTCTĞCAĞATCATĞ
                                                                                                       9598
Sbjct
         9539
         9599
                 Τ
                      9599
Query
         9599
                 Τ
                      9599
Sbjct
>gb|AR119833.1|AR119833 Sequence 6 from patent US 6153421
Length=9599
 Score = 1.477e+04 bits (7997), Expect = 0.0 Identities = 9127/9661 (94%), Gaps = 124/9661 (1%)
 Strand=Plus/Plus
                 GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
Query
         1
                                                                                                       60
                 Sbjct
         1
                                                                                                       60
                 TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
Query
         61
                                                                                                       120
                  TCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGAC
         61
                                                                                                       120
Sbjct
Query
                  OCCCCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCAG
                                                                                                       180
         121
                 Sbjct
         121
                                                                                                       180
Query
         181
                 GACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCCC
                                                                                                       240
                 181
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Sbjct
         241
                 GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
                                                                                                       300
Query
                     GCGÁGÁCTGCTÁGCCGÁGTÁGTGTTGGGTCGCGÁÁÁAGGCCTTGTGGTÁCTGCCTGÁTÁGG
Sbjct
         241
                                                                                                       300
         301
                 GTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAAC
                                                                                                       360
Query
                 Sbjct
         301
                                                                                                       360
         361
                 CTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGTG
                                                                                                       420
Query
                 361
                                                                                                       420
Sbjct
         421
                 GCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTGC
                                                                                                       480
Query
                 421
                                                                                                       480
Sbjct
Query
         481
                 GCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCCA
                                                                                                       540
                  ĠĊĠĊĠĂĊŦĂĠĠŔĂĠĠĊŤŤĊĊĠŔĠĊĠĠŤĊĠĊŔŔĊĊŤĊĠŦĠĠĸŔĠĠĊĠĸĊŔĸĊĊŤŔŤĊĊĊĸŔ
         481
                                                                                                       540
Sbjct
                 AGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG
         541
                                                                                                       600
Query
                  Sbjct
         541
                 AGGCTCGCCGACCCGAGGGCAGGGCCTGGGCTCAGCCCGGGTACCCTTGGCCCCTCTATG
                                                                                                       600
```

Query	601	GCAATGAGGG-TTGCGGGTGGGCGGGATGGCTCCTGTCTCCCCGTGGCTCTCGGCCTAGC	659
Sbjct	601	GCAATGAGGGCCTG-GGGTGGGCAGGATGGCTCCTGTCACCCCGCGGCTCCCGGCCTAGT	659
Query	660	TGGGGCCCACAGACCCCGGCGTAGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTT	719
Sbjct	660	TGGGGCCCCACGGACCCCCGGCGTAGGTCGCGTAACTTGGGTAAGGTCATCGATACCCTT	719
Query Sbict	720 720	ACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGC	779 779
Query	780	GCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACA	839
Sbict	780	GCTGCCAGGGCCTTGGCACACGGTGTCCGGGTTCTGGAGGACGGCGTGAACTATGCAACA	839
Query	840	GGGAACCTT-CCTGGTTGCTCTTTCTCTATCTTCCTTC-TGGCCCTGCTCTCTTGCCTGA	897
Sbjct	840		897
Query	898	CTGTGCCC-GCTTCAGCCTACCAAGTGCGCAA-TTCCTCGGGGGCTTTACCATGTCACCAA	955
Sbjct	898		955
Query	956	TGATTGC-CCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATCCTGCACACTCCGG	1014
Sbjct	956		1014
Query	1015	GGTGTGT-CCCTTGCGTTC-GCGAGGGTAAC-GCCTCGAGGTGTTGGGTGGCGGTGACCC	1071
Sbjct	1015	ĠĠŦĠĊĠŦĠĊĊĊĸŦĠŦĠŦŦĊĸĠĸĠĸĠĠĠŦĸĸĊĸĠĸĊŦĊĊĊĠŦŦĠĊŦĠĠĠŦĸĠĊĠĊŦĊĸĊŦĊ	1071
Query	1072	CCACGGTGGCCACAGGGACGCAAAC-TCCCCACAACG-CAGCTTCGACGTCATATCGA	1129
Sbjct	1072	ĊĊĂĊĠĊŤĊĠĊĠĠĊĊĂ~ĠĠĂAŦĠĊĊĂĠĠŤĊĊĊĊĂĊŦĂĊĠAĊĂ~AŤAĊĠĂĊĠĊĊĂĊĠŤĊĠĀ	1129
Query	1130	TC-TGCTTGTCGGGAGC-GCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTGTGCGGG	1187
Sbjct	1130	-CTTGCTCGTTGGGA-CGGCTGCTTTCTGCTCCGCTATGTACGTGGGGGATCTCTGCGGA	1187
Query	1188	TCTGTCTTT-CTTGT-TGGTCAACTGTTTACCTTCTCC-CAGGCGCCACTG-GACGA-	1242
Sbjct Query	1188 1243	TCTAT-TTTCCTCGTCT-CCCAGCTGTTCACCTTCTCGCCTC-GCCGGCA-TGAGAC-AG  CGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGGG	1242 1302
Sbict	1243		1302
Ouerv	1303	ATATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGTAG-CTCAGCTGCTCCGGATC	1361
Sbjct	1303		1361
Query	1362	CCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGGGAGTCCTGGCGGGCATAGCG	1421
Sbjct	1362		1421
Query	1422	TA-TTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGT-GCTGCTGCTATTTGCCG	1479
Sbjct	1422	TACTAT-TCCATGGTAGGGAACTGGGCTAAGGTTCTGATTGTGGC-GCTACTCTTTGCCG	1479
Query	1480	GCGTCGACGCGGAAACCCACGTC-ACCGGGGGA-AAT-GCCGGCCGCACCACGGCTGGGC	1536
Sbjct	1480	ĠĊĠŤŦĠĀĊĠĠĠĠĀĠĀĊĊĊĀĊ~ĀĊĠĀ~Ċ~ĠĠĠĠĀĠĠĠŤĠĠĊĊĠĠĊĊĀĊĀĊĊĀĊĊŦĊĊĠĠĠ~	1535
Query	1537	TTGTTGGTCTCCTT-ACACCAGGCGCCAAGCAGAACATCCAAC-TGATCAACACCAAC	1592
Sbjct	1536	ŤŤ-CACĠŤĊ-ČĊŦŦŤŤCŦĊĂŤĊŦĠĠĠĠĊĠŦĊŦĊĂĠŔŔĸŔŤĊĊŔĠĊŦŤĠ-ŤĠŔŔŦŔĊĊŔŔĊ	1592
Query	1593	GGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCT-TAACACCGGCTG	1651
Sbjct	1593	GGCAGCTGGCACATCAACAGGACTGCCCTAAATTGCAATGACTCCCTCC	1651
Query	1652	GTTAGCAGGGCTCTTCTATC-AACACAAATTCAACTCTTCAGGCTGTCCTGAGAGGTTGG	1710
Sbjct	1652	CTTTGCCGCGCTGTTTTA-CGCACACAAGTTCAACTCGTCCGGGTGCCCGGAGCGCATGG	1710

Query	1711	CCAGCTGCCGACGCC-TT-ACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTATGCCAA	1768
Sbjct	1711	CCAGCTGCCG-CCCCATTGACTG-GTTCGCCCAGGGGTGGGGCCCCATCACCTATACTAA	1768
Query	1769	-CGGAAGCGGCCTC-GA-CGA-ACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTGTG	1824
Sbjct	1769	GCCTAA-CAG-CTCGGATC-AGA-GGCCTTATTGCTGGCATTACGCGCCTCGACCGTGTG	1824
Query	1825	GCATTGTGCCCGCAAAG-AGCGTGTGTGGCCCGGTATATTGCTTCACTCCC-AGCCCCGT	1882
Sbjct	1825	GTGTCGTACCCGCGTCGCAG-GTGTGTGTGCCAGTGTATTGTTTCAC-CCCAAGCCCTGT	1882
Query	1883	GGTGGTGGGAACGACCGA-CAGGTCGGGCG-CGCCTACCTACAGCTGGGGTGCA-AATGA	1939
Sbjct	1883	TGTGGTGGGGACCACCGATC-GTTCCGGTGTC-CCTACGTATAGCTGGGG-GGAGAATGA	1939
Query	1940	TACGGATGT-CTTCGTCCTTAACAACAC-CAGGCCACCGCTGGGCAATTGGTTCGGTTGT	1997
Sbjct	1940	GACAGACGTGATGC-TCCTCAACAACACGC-GTCCGCCACAAGGCAACTGGTTCGGCTGT	1997
Query	1998	ACCTGGATGAACTCAACTGGATTCACCAAAG-TGTGCGGAGCG-CCCCCTTGTGTCAT	2053
Sbjct	1998	ACATGGATGAA-T-AGTACTGGGTTCA-CTAAGACGTGCGGAG-GTCCCCCGTGTAACAT	2053
Query	2054	CGGAGGGGTGGCCAACACCCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGA	2113
Sbjct	2054	CGGGGGGTCGGTAACCGCACCTTGATCTGCCCCACGGACTGCTTCCGGAAGCACCCCGA	2113
Query	2114	AGCCACATACTCTCGGTGCGGCTCCCGGTCCCTGGATT-ACACCCAGGTGCATGGTCGACT	2172
Sbjct	2114	GGCTACTTACACAAAATGTGGCTCGGGGCCCTGG-TTGACACCTAGGTGCCTAGTAGACT	2172 2231
Query Sbjct	2173 2173	ACCCGTATAGGCTTTGGCACTATCCTTGTAC-CATCAATTACACCATATTCAAAGTCAGG	2231
Query	2232	ATGTACGTGGGAGGG-GTCGAGCACAGGCTGGAA-GCGGCCTGCAACTGGACGCGGGGCG	2289
Sbjct	2232		2289
Query	2290	AACGCTGTGATC-TGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACC	2348
Sbjct	2290		2348
Query	2349	ACACAGTGGCAGGTCCTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTC	2408
Sbjct	2349	acagagigecagaiacigeceigigeiiiteaceaceitacegeiiitaiecaciegiiite	2408
Query	2409	ATCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGC-AT	2467
Sbjct	2409	atccatctcatcagaacatcgtggacgtgcaatacctgtacggtgtagggtc-agcgtt	2467
Query	2468	CG-CGTCCTGGGCCATTAAGTGGGAGTACGTCGT-TCTCCTGTTCCTTCTGCTGCAGAC	2525
Sbjct	2468	TĠTĊ-TĊĊŤTTĠĊAĂŤĊĂĂAŤĠĠĠĂĠŤĂĊAŤĊĊŤĠŤ-ŤĠĊŤŦŤŤĊĊŤŤĊŤĊĊŤĠĠĊĂĠĂĊ	2525
Query	2526	GCGCGCGTCTGCT-CCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTT	2584
Sbjct	2526	GCGCGCGTGTG-TGCCTGCTTGTGGATGATGCTGCTGATAGCCCAGGCTGAGGCCGCCTT	2584
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGA-CGCACGGTCTTGTGTCCT	2643
Sbjct	2585	AGAGAACTTGGTGGTCCTCAATGCGGCGTCCGTGGCC-GGAGCGCATGGTATTCTCTCCT	2643
Query	2644	TCCTCGTGTTCTTCTGCTTGCGTGGTATC-TGAAGGGTAGG-TGGGTGCCCGGAGCGGT	2701
Sbjct	2644	TTCTTGTGTTCTTCTGCGCCGCCTGGTA-CATTAAGGGCAGGCTGGCT-CCTGGGGCGG-	2700
Query	2702	C-TACGCCCTCTACGG-GATGTGGCCTCTCCTCCTGCTGCTGCTGGCGTTGCC-TCAGCG	2758
Sbjct	2701	CGTATGCTTTTTATGGCG-TATGGCCGCTGCTCCTGCTCCTACTGGCGTTACCACCA-CG	2758
Query	2759	GGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTGTTCTTGTCGGGTT	2818
Sbjct	2759	AGCATATGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTT	2818

Query	2819	AATGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCT	2878
Sbjct	2819	aatggcgctgactctgtcgccatattacaagcgctatatcagctggtgcatgtggtgct	2878
Query	2879	TCAGTATTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGGTTcccccctCAACGT	2938
Sbjct	2879	ŤĊĂĠŤĂŤŤŤŤĊŤĠĂĊĊĂĠĂĠŤĂĠĂĂĠĊĠĊĂĂĊŤĠĊĂĊĠŤĠŤĠĠĠŤŤĊĊĊĊĊĊĊĊ	2938
Query	2939	CCgggggggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Sbjct	2939	CCGGGGGGGGCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATT	2998
Query	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Sbjct	2999	TGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTT	3058
Query	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Sbjct	3059	GCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCG	3118
Query	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Sbjct	3119	GAAGATAGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGG	3178
Query	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGA	3238
Sbjct	3179	CACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCCGCACAACGGCCTGCGAGA	3238
Query	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Sbjct	3239	TCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTG	3298
Query	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Sbjct	3299	GGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAG	3358
Query	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Sbjct	3359	GGGCCAGGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCT	3418
Query	3419 3419	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAG	3478 3478
Sbjct	3479	GGCGCCCATCACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAG CCTGACTGGCCGGGACAAAAACCAAGTGGAGGTGAGGT	3538
Query Sbjct	3479	CCTGACTGGCCGGGACAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTAC	3538
Ouerv	3539	CCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGG	3598
Sbjct	3539		3598
Query	3599	AACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCA	3658
Sbjct	3599		3658
Query	3659	AGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGG	3718
Sbjct	3659		3718
Query	3719	CTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGG	3778
Sbjct	3719		3778
Query	3779	TGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGG	3838
Sbjct	3779		3838
Query	3839	GGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCAC	3898
Sbjct	3839		3898
Query	3899	CCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAG	3958
Sbjct	3899		3958

Query	3959	ATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGC	4018
Sbjct	3959	atccccgctcttcaccgcacaactcctctccaccaccactgccccagaccttccaccacc	4018
Query	4019	CCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGC	4078
Sbjct	4019	ccacctgcatgctcccaccggcagcggtaagagcaccaaggtcccggctgcgtacgcagc	4078
Query	4079	CCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGC	4138
Sbjct	4079	ccagggctacaaggtgttggtgctcaacccctctgttgctgcaacgctgggctttggtgc	4138
Query	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Sbjct	4139	TTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTAC	4198
Query	4199	CACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTC	4258
Sbjct	4199	ĊAĊŦĠĠĊĀĠĊĊĊĊĀŦĊĀĊĠŦĀĊŦĊĊĀĊĊŦĀĊĠĠĊĀĀĠŦŦĊĊŦŦĠĊĊĠĀĊĠĠĊĠĠĠŦĠĊŦĊ	4258
Query	4259	AGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCAT	4318
Sbjct	4259	AĞĞAĞĞTĞCTTATĞACATAATTTĞTĞACĞAĞTĞCCACTCCACĞĞATĞCCACATCCAT	4318
Query	4319	CTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4378
Sbjct	4319	ĊŢŢĠĠĠĊĀŢĊĠĠĊĀĊŢĠŢĊĊŢŢĠĀĊĊĀĀĠĊĀĠĀĠĀĊŢĠĊĠĠĠĠĠĠĠĠ	4378
Query	4379	CGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGC	4438
Sbjct	4379	cgccactgctacccctccggctccgtcactgtgtcccatcctaacatcgaggaggttgc	4438
Query	4439	TCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAA	4498
Sbjct	4439	ŤĊŤĠŤĊĊĂĊĊĂĊĊĠĠĂĠĂĠĂŤĊĊĊĊŤŤŤŤĂĊĠĠĊĂĂĠĠĊŤĂŤĊĊĊĊŤĊĠĂĠĠŤĠĂŤĊĂĀ	4498
Query	4499	GGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAA	4558
Sbjct	4499	ĠĠĠĠĠĠĀĀĠĀĊĀŤĊŤĊĀŤĊŤŤĊŤĠĊĊĀĊŤĊĀĀĀĠĀĀĠĀĀĠŤĠĊĠĀĠĠĀĠĊŤĊĠĊĊĠĊĠĀĀ	4558
Query	4559	GCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4618
Sbjct	4559	ĠĊŦĠĠŦĊĠĊĂŦŦĠĠĠĊĂŦĊĂĂŦĠĊĊĠŦĠĠĊĊŦĂĊŦĂĊĊĠĊĠĠŦĊŦŦĠĂĊĠŦĠŦĊŦĠŦĊ	4618
Query	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Sbjct	4619	CCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGG	4678
Query	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Sbjct	4679	CGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCT	4738
Query	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Sbjct	4739	TGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCA	4798
Query	4799	ACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Sbjct	4799	ACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGA	4858
Query	4859	GCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Sbjct	4859	GCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGC	4918
Query	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Sbjct	4919	TTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCC	4978
Query	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Sbjct	4979	GGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCAC	5038
Query	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCT	5098
Sbjct	5039	TCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGGAGAACTTTCCTTACCT	5098

Query	5099	GGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCA	5158
Sbjct	5099	ggtagcgtaccaagccaccgtgtgcgctagggctcaagcccctccccatcgtgggacca	5158
Query	5159	GATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATA	5218
Sbjct	5159	ĠĂŦĠŦĠĠĂĂĠŦĠŦŦŦĠĂŦĊĊĠĊĊŦŦĂĂĂĊĊĊĂĊĊĊŦĊĊĂŦĠĠĠĊĊĂĂĊĂĊĊĊĊŦĠĊŦĂŦĀ	5218
Query	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Sbjct	5219	CAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCAT	5278
Query	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Sbjct	5279	GACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGT	5338
Query	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Sbjct	5339	CCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGAT	5398
Query	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTTCGA	5458
Sbjct	5399	CGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGA	5458
Query	5459	TGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGA	5518
Sbjct	5459	TGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGA	5518
Query	5519	GCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTAT	5578
Sbjct	5519	GCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTAT	5578
Query	5579	CACCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTG	5638
Sbjct	5579	CACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTG	5638
Query	5639	GAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGC	5698
Sbjct	5639	ĠĂĂŤŤŤĊĂŤĊĂĠŤĠĠĠĂŤĂĊĂĂŤĂĊŤŤĠĠĊĠĠĠĊĊŤĠŤĊĂĂĊĠĊŤĠĊĊŤĠĠŤĂĂĊĊĊĊĠĊ	5698
Query	5699	CATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAAC	5758
Sbjct	5699	CATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAAC	5758
Query	5759	CCTCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGC	5818
Sbjct	5759	CCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGC	5818
Query	5819	TACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCCCATCGGCAGCGTTGGACTGGGGAA	5878
Sbjct	5819	TACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCCCATCGGCAGCGTTGGACTGGGGAA	5878
Query	5879	GGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATT	5938
Sbjct	5879	GGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATT	5938
Query	5939	CAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCAT	5998
Sbjct	5939	CAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCAT	5998
Query	5999	CCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGTGTCTGCGCAGCAATACTGCGCCGGCACGT	6058
Sbjct	5999	ĊĊŦĊŦĊĠĊĊŦĠĠĂĠĊĊĊŦŦĠŦĂĠŦĊĠĠŦĠŦĠĠĊĊĠĊĂĠĊĂĂŦĂĊŦĠĊĠĊĊĠĠĊĂĊĠŦ	6058
Query	6059	TGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGG	6118
Sbjct	6059	tigicccigigic gaigigigic ag tigica a tigic a tigic construction of the construction of	6118
Query	6119	GAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6178
Sbjct	6119	gaaccatgtttccccacgcactacgtgccggagagcgatgcagccgcccgc	6178
Query	6179	CATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTC	6238
Sbjct	6179	CATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTC	6238

Query	6239	GGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGA	6298
Sbjct	6239	ġĠĀĠŦĠŦĀĊĊĀĊŦĊĊĀŦĠĊŦĊĊĠĠŦŦĊĊŦĠĠĊŦĀĀĠĠĠĀĊĀŦĊŦĠĠĠĀĊŦĠĠĀŦĀŦĠĊĠĀ	6298
Query	6299	GGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGAT	6358
Sbjct	6299	ĠĠŦĠĊŦĠĀĠĊĠĀĊŦŦŦĀĀĠĀĊĊŦĠĠĊŦĠĀĀĀĠĊĊĀĀĠĊŦĊĀŦĠĊĊĀĊĀĀĊŦĠĊĊŦĠĠĠĀŦ	6358
Query	6359	TCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCA	6418
Sbjct	6359	TCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCA	6418
Query	6419	CACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGAT	6478
Sbjct	6419	CACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGAT	6478
Query	6479	CGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACAC	6538
Sbjct	6479	CGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACAC	6538
Query	6539	CACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTC	6598
Sbjct	6539	CACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTC	6598
Query	6599	TGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGAC	6658
Sbjct	6599	TGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGAC	6658
Query	6659	TACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGA	6718
Sbjct	6659	TÁCTGÁCAÁTCTTÁÁÁTGCCCGTGCCÁGÁTCCCÁTCGCCCGÁÁTTTTTCÁCÁGAÁTTGGÁ	6718
Query	6719	CGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATC	6778
Sbjct	6719	ĊĠĠĠĠŦĠĊĠĊĊŦĀĊĀĊĀĠĠŤŦŦĠĊĠĊĊĊĊŦŦĠĊĀĀĠĊĊĊŦŦĠĊŦĠĊĠĠĠĀĠĠĀĠĠŦĀŦĊ	6778
Query	6779	ATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACC	6838
Sbjct	6779	attcagagtaggactccacgagtacccggtggggtcgcaattaccttgcgagcccgaacc	6838
Query	6839	GGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6898
Sbjct	6839	ĠĠĂĊĠŤĂĠĊĊĠŤĠŤŤĠĂĊĠŤĊĊĂŤĠĊŤĊĂĊŤĠĂŤĊĊĊŤĊĊĊ	6898
Query	6899	CGGGAGAAGGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCT	6958
Sbjct	6899	ĊĠĠĠĀĠĀĀĠĠŤŤĠĠĊĠĀĠĀĠĠŤĊĀĊĊĊĊŤŤĊŤĀŤĠĠĊĊĀĠĊŤĊĊŤĊĠĠĊŤĀĠĊĊĀĠĊŤ	6958
Query	6959	GTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCT	7018
Sbjct	6959	ĠŤĊĊĠĊŤĊĊĂŤĊŤĊĂĂĠĠĊĂĂĊŤŤĠĊĂĊĊĠĊĊĂĂĊĊĂŤĠĂĊŤĊĊĊĊŤĠĂĊĠĊĊĠĂĠĊŤ	7018
Query	7019	CATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTC	7078
Sbjct	7019	ĊĂŦĂĠĂĠĠĊŦĂĂĊĊŦĊĊŦĠŦĠĠĂĠĠĊĀĠĠĀĠĠĊĠĠĊĀĂĊĂŤĊĂĊĊĂĠĠĠŦŦĠĀĠŦĊ	7078
Query	7079	AGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCG	7138
Sbjct	7079	AĞAĞAACAAAĞTĞĞTĞATTCTĞĞACTCCTTCĞATCCĞCTTĞTĞĞCAĞAĞĞAĞĞATĞAĞCĞ	7138
Query	7139	GGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCC	7198
Sbjct	7139	ggaggtétécégtacétgéagaaattétgéggaagtétéggagattégéééggéééttgéé	7198
Query	7199	CGTCTGGGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTA	7258
Sbjct	7199	cgtctgggcgcggccggactacaaccccccgctagtagagacgtggaaaaaagcctgacta	7258
Query	7259	CGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCC	7318
Sbjct	7259	cgaaccacctgtggtccatggctgcccgctaccacctccacggtcccctctgtgcctcc	7318
Query	7319	GCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGA	7378
Sbjct	7319	GCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGA	7378

Query	7379	GCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGAC	7438
Sbjct	7379	ĠĊŦŦĠĊĊĂĊĊĂĂĂĂĠŦŤŦŦĠĠĊĂĠĊŦĊĊŦĊĂĂĊŦŦĊĊĠĠĊĂŦŦĂĊĠĠĊĠĂĊĂĂŦĂĊĠĀĊ	7438
Query	7439	AACATCCTCTGAGCCCGCCCCTTCTGGCTGGGGGGGGACTCCGACGTTGAGTCCTATTC	7498
Sbjct	7439	AACATCCTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTC	7498
Query	7499	TTCCATGCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTC	7558
Sbjct	7499	TTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTC	7558
Query	7559	GACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTG	7618
Sbjct	7559	ĠĂĊĠĠŤĊĀĠŤĀĠŤĠĠĠĠĊĊĠĀĊĀĊĠĠĀĀĠĀŤĠŤĊĠŤĠŤĠĊŤĠĊŤĊĀĀŤĠŤĊŤŤĀŤŤĊĊŤĠ	7618
Query	7619	GACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACT	7678
Sbjct	7619	ĠAĊAĠĠĊĠĊAĊŦĊĠŦĊAĊĊĊĠŦĠĊĠĊŦĠĊĠĠAAĠAAĊAAAAĊŦĠĊĊĊAŦĊAAĊĠĊĀĊŦ	7678
Query	7679	GAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTG	7738
Sbjct	7679	ĠAĠĊĀĀĊŢĊĠŢŢĠĊŢĀĊĠĊĊĀŢĊĀĊĀĀŢĊŢĠĠŢĠŢĀŢŢĊĊĀĊĊĀĊŢŢĊĀĊĠĊĀĠŢĠĊŢŢĠ	7738
Query	7739	CCAAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGA	7798
Sbjct	7739	ccaaaggcagaaagtcacatttgacagactgcaagttctggacagccattaccagga	7798
Query	7799	CGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGA	7858
Sbjct	7799	CGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGA	7858
Query	7859	GGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAA	7918
Sbjct	7859	ggaagcttgcagcctgacgccccacattcagccaaatccaagtttggctatggggcaaa	7918
Query	7919	AGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCT	7978
Sbjct	7919	AGACGTCCGTTGCCATGCCAGAAAGGCCCGTAGCCCACATCAACTCCGTGTGGAAAGACCT	7978
Query	7979	TCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTG	8038
Sbjct	7979	tctggaagacagtgtaacaccaatagacactaccatcatggccaagaacgaggttttctg	8038
Query	8039	CGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGG	8098
Sbjct	8039	cgttcagcctgagaaggggggtcgtaagccagctcgtctcatcgtgttccccgacctggg	8098
Query	8099	CGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGT	8158
Sbjct	8099	cgtgcgcgtgtgcgagaagatggccctgtacgacgtggttagcaagctccccttggccgt	8158
Query	8159	GATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCA	8218
Sbjct	8159	GATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCA	8218
Query	8219	AGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTC	8278
Sbjct	8219	AGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTC	8278
Query	8279	CACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGA	8338
Sbjct	8279	CACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGA	8338
Query	8339	CCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCT	8398
Sbjct	8339	CCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCT	8398
Query	8399	TACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGAC	8458
Sbjct	8399	TACCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGAC	8458
Query	8459	AACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGC	8518
Sbjct	8459	AACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGC	8518

Query	8519	AGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAG	8578
Sbjct	8519	AGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAG	8578
Query	8579	TGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTA	8638
Sbjct	8579	TĠĊĠĠĠĠŢĊĊĀĠĀĠĠĠĊĠĠĊĠĠĊĠĀĠĊĊŢĠĀĠĀĠĊĊŢŢĊĀĊĠĠĀĠĠĊŢĀŢĠĀĊĊĀĠĠŢĀ	8638
Query	8639	CTCCGcccccccggggacccccaCAACCAGAATACGACTTGGAGCTTATAACATCATG	8698
Sbjct	8639	ĊŢĊĊĠĊĊĊĊĊĊĠĠĠĠĠĊĊĊĊĊĊĊĊĠĠaAĊĊĠĠAĊŢŢĠĠĠĊŢŢĸŢĸĸĊĸŢĊĸŢĠ	8698
Query	8699	CTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCG	8758
Sbjct	8699	ĊŢĊĊŢĊĊĸĸĊĠŢĠŢĊĸĠŢĊĠĊĊĊĸĊĠĸĊĠĠĊĠĊŢĠĠĸĸĸĠĸĠĠĠŢĊŢĸĊŢĸĊĊŢŢĸĊĊĠ	8758
Query	8759	TGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAA	8818
Sbjct	8759	TĠACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAA	8818
Query	8819	TTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGAT	8878
Sbjct	8819	ttcctggctaggcaacataatcatgtttgccccacactgtgggcgaggatgatactgat	8878
Query	8879	GACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGA	8938
Sbjct	8879	ĠAĊĊĊĀŢŢĊŢŢŢŖĠĊĠŢĊĊŢĊĀŢĀĠĊĊĀĠĠĠĀŢĊĀĠĊŢŢĠĀĀĊĀĠĠĊŢĊŢŢĀĀĊŢĠŢĠĀ	8938
Query	8939	GATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACT	8998
Sbjct	8939	ĠATĊTAĊĠĠAĠĊĊŦĠĊŦAĊŦĊĊAŦAĠAAĊĊAĊŦĠĠAŦĊŦAĊĊŦĊĊAAŦĊAŤŦĊAAAĠAĊŦ	8998
Query	8999	CCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGC	9058
Sbjct	8999	ccatggcctcagcgcattttcactccacagttactctccaggtgaaatcaatagggtggc	9058
Query	9059	CGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAG	9118
Sbjct	9059	cgcatgcctcagaaaacttggggtcccgccttgcgagcttggagacaccgggcccggag	9118
Query	9119	CGTCCGCGCTAGGCTTCTGTCCAGAGGAGGAGGGCTGCCATATGTGGCAAGTACCTCTT	9178
Sbjct	9119	ĊĠŦĊĊĠĊĠĊŦĂĠĠĊŦŦĊŦĠŦĊĊĀĠĀĠĠĀĠĠĊĀĠĠĠĊŦĠĊŦĂŦĂŦĠŦĠĠĊĀĀĠŦĀĊĊŦĊŦŦ	9178
Query	9179	CAACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGA	9238
Sbjct	9179	ĊĂĂĊŢĠĠĊĂĠŢĂĂĠĂĂĊĂĂĂĠĊŢĊĂĂĀĊŢĊĂĂŢĂĠĊĠĠĊĊĠĊŢĠĠĊĊĠĠĊŢĠĠĀ	9238
Query	9239	CTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCA	9298
Sbjct	9239	ĊŢŢĠŢĊĠĠŢŢĠĠŢŢĊĸĊĠĠĊŢĠĠĊŢĸĊĸĠĠĠĠĠĠĠĠĠĠĸĠĸĊĸŢŢĸŢĊĸĊĸĠĊĠŢĠŢĊŢĊĸ	9298
Query	9299	TGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTA	9358
Sbjct	9299	ŤĠĊĊĊĠĠĊĊĊĊĠĊŤĠĠŤŤĊŤĠĠŤŤŤŤĠĊĊŤĂĊŤĊĊŤĠĊŤĊĠĊŤĠĊĀĠĠĠĠŤĀĠĠĊĂŤĊŤĀ	9358
Query	9359	CCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTG	9418
Sbjct	9359	ĊĊŢĊĊŢĊĊĊAAĊĊĠAŢĠAAĠĠŢŢĠĠĠĠŢĀAAĊĀĊŢĊĊĠĠĊĊŢĊŢŢĀAĠĊĊĀŢŢŢĊĊŢĠŢ	9418
Query	9419		9478
Sbjct	9419	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9478
Query	9479	cotttottttocottotttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTG	9538
Sbjct	9479	cctttctttttcccttctttaatggtggctccatcttagccctagtcacggctagctgtg	9538
Query	9539	AAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATG	9598
Sbjct	9539	aaaggtccgtgagccgcatgactgcagagagtgctgatactggcctctctct	9598
Query	9599	T 9599	
Sbjct	9599	T 9599	

## >gb|AR118728.1|AR118728 Sequence 137 from patent US 6150087 Length=8987

Score = 1.443e+04 bits (7813), Expect = 0.0 Identities = 8602/8993 (95%), Gaps = 14/8993 (0%) Strand=Plus/Plus

SCIANG=Plus/Plus					
Query	342	ATGAGCACGAATCCTAAACCTCAAAGAAAAACCAAACGTAACACCAACCGTCGCCCACAG	401		
Sbjct	1	atgagcacgaatcctaaacctcaaaaaaaaaacaaacgtaacaccaaccgtcgcccacag	60		
Query	402	GACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGG	461		
Sbjct	61	GACGTCAAGTTCCCGGGTGGCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGG	120		
Query	462	GGCCCTAGATTGGGTGTGCGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGT	521		
Sbjct	121	GGCCCTAGATTGGGTGTGCGCGCGACGAGAAAGACTTCCGAGCGGTCGCAACCTCGAGGT	180		
Query	522	AGACGTCAGCCTATCCCCAAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGG	581		
Sbjct	181	agacgtcagcctatccccaaggctcgtcggcccgagggcaggacctgggctcagcccggg	240		
Query	582	TACCCTTGGCCCCTCTATGGCAATGAGGGTTGCGGGTGGGCGGGATGGCTCCTGTCTCCC	641		
Sbjct	241	TACCCTTGGCCCCTCTATGGCAATGAGGGCTGCGGGTGGGCGGGATGGCTCCTGTCTCCC	300		
Query	642	CGTGGCTCTCGGCCTAGCTGGGGCCCCACAGACCCCCGGCGTAGGTCGCGCAATTTGGGT	701		
Sbjct	301	cgrggctcrcggcctagcrgggccccacagacccccggcgraggrcgcgcaartrgggr	360		
Query	702	AAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCATGGGGTACATACCGCTCGTC	761		
Sbjct	361	aaggtcatcgatacccttacgtgcggcttcgccgacctcatggggtacataccgctcgtc	420		
Query	762	GGCGCCCTCTTGGAGGCCTGCCAGGGCCCTGGCGCATGGCGTCCGGGTTCTGGAAGAC	821		
Sbjct	421	ggcgccccttttggaagcgctgccagggcccttggcgcatggcgttctggaagac	480		
Query	822	GGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTTCTCTATCTTCCTTC	881		
Sbjct	481	ggcgtgaactatgcaacagggaaccttcctggttgctctttctctatcttccttc	540		
Query	882	CTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGTGCGCAATTCCTCGGGGCTT	941		
Sbjct	541	ĊŢĠĊŢĊŢĊŢŢĠĊŢŖĠĊŢĠŢĠĊĊĠĊŢŢĊĠĠĊŢŖĊĊĸĸĠŢĠĊĠĊĸĸĊŢĊĊĸĊĠĠĠĠĊŢŢ	600		
Query	942	TACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATC	1001		
Sbjct	601	TACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTACGAGGCGGCCGATGCCATC	660		
Query	1002	CTGCACACTCCGGGGTGTGCCCTTGCGTTCGCGAGGGTAACGCCTCGAGGTGTTGGGTG	1061		
Sbjct	661	ctgcacactccggggtgcgtcctttgcgttcgtgagggcaacgcctcgaggtgttgggtg	720		
Query	1062	GCGGTGACCCCACGGTGGCCACCAGGGACGGCAAACTCCCCACAACGCAGCTTCGACGT	1121		
Sbjct	721	ĠĊĠAŤĠĂĊĊĊĊŦĂĊĠĠŤĠĠĊĊĂĊĊĂĠĠĠĂŦĠĠĊĀĀĀĊŤĊĊĊĠĊĠĂĊĠĊĀĠĊŤŤĊĠĀĊĠŤ	780		
Query	1122	CATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGCCCTCTACGTGGGGGACCTG	1181		
Sbjct	781	CACATCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGCCCTCTACGTGGGGGACCTA	840		
Query	1182	TGCGGGTCTGTCTTTGTTGGTCAACTGTTTACCTTCTCCCAGGCGCCACTGGACG	1241		
Sbjct	841	tgcgggtctgtctttcttgtcggccaactgttcaccttctctctc	900		
Query	1242	ACGCAAGACTGCAATTGTTCTATCTATCCCGGCCATATAACGGGTCATCGCATGGCATGG	1301		
Sbjct	901	ACGCAAGGTTGCAATTGCTCTATCTATCCCGGCCATATAACGGGTCACCGCATGGCATGG	960		
Query	1302	GATATGATGATGAACTGGTCCCCTACGGCAGCGTTGGTGGTAGCTCAGCTGCTCCGGATC	1361		
Sbjct	961	GATATGATGATGAACTGGTCCCCTACGACGGCGTTGGTAATGGCTCAGCTGCTCCGGATC	1020		

Query	1362	CCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGGAGTCCTGGCGGGCATAGCG	1421
Sbjct	1021		1080
Query	1422	TATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGC	1481
Sbjct	1081	TATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGTGCTGCTATTTGCCGGC	1140
Query	1482	GTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1541
Sbjct	1141	GTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCACACTGTGTCTGGATTTGTT	1200
Query	1542	GGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGATCAACACCAACGGCAGTTGG	1601
Sbjct	1201	AGCCTCCTCGCACCAGGCGCCAAGCAGAACGTCCAGCTGATCAACACCAACGGCAGTTGG	1260
Query	1602	CACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAACACCGGCTGGTTAGCAGGG	1661 1320
Sbjct Query	1261 1662	CACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAACACCGGCTGGTTGGCAGGG CTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGA	1721
Sbjct	1321		1380
Query	1722	CGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTATGCCAACGGAAGCGGCCTC	1781
Sbjct	1381		1440
Query	1782	GACGAACGCCCCTACTGCTGGCACTACCCTCCAAGACCTTGTGGCATTGTGCCCGCAAAG	1841
Sbjct	1441		1500
Query	1842	AGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGTGGTGGTGGGAACGACCGAC	1901
Sbjct	1501		1560
Query	1902	AGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATACGGATGTCTTCGTCCTTAAC	1961
Sbjct	1561	AGGTCCGGCGCCCCACCTACAGCTGGGGTGAAAATGATACGGACGTCTTCGTCCTTAAC	1620
Query	1962	AACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTC	2021
Sbjct	1621	aataccaggccaccgctgggcaattggttcggttgtacctggatgaactcaactggattc	1680
Query	2022	ACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGTGGGCAACAACACCTTGCTC	2081
Sbjct	1681	ACCAAAGTGTGCGGAGCGCCTCCTTGTGTCATCGGAGGGGCGGCCAACAACACCCTGCAC	1740
Query	2082	TGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATACTCTCGGTGCGGCTCCGGT	2141
Sbjct	1741	TGCCCCACTGATTGCTTCCGCAAGCATCCGGACGCCACATACTCTCGGTGCGGCTCCGGT	1800
Query Sbjct	2142 1801	CCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAGGCTTTGGCACTATCCTTGT	2201 1860
Query	2202	ACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGGAGGGGTCGAGCACAGGCTG	2261
Sbjct	1861		1920
Query	2262	GAAGCGGCCTGCAACTGGACGCGGGGCGAACGCTGTGATCTGGAAGACAGGGACAGGTCC	2321
Sbjct	1921		1980
Query	2322	GAGCTCAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGTCCTTCCGTGTTCTTTCACG	2381
Sbjct	1981		2040
Query	2382	ACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAG	2441
Sbjct	2041	ACCCTACCAGCCTTGTCCACCGGCCTCATCCACCTCCACCAGAACATTGTGGACGTGCAG	2100
Query	2442	TACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTT	2501
Sbjct	2101	TACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGCCATTAAGTGGGAGTACGTCGTT	2160

Query	2502	CTCCTGTTCCTTCTGCTTGCAGACGCGCGCGTCTGCTCCTGCTTGTGGATGATGTTACTC	2561
Sbjct	2161		2220
Query	2562	ATATCCCAAGCGGAGGCGCTTTGGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCC	2621
Sbjct	2221	atatcccaagcggaggcggctttggagaacctcgtaatacttaatgcagcatccctggcc	2280
Query	2622	GGGACGCACGGTCTTGTGTCCTCCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGT	2681
Sbjct	2281	GGGACGCACGGTCTTGTATCCTTCCTCGTGTTCTTCTGCTTTGCATGGTATTTGAAGGGT	2340
Query	2682	AGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTG	2741
Sbjct	2341	AAGTGGGTGCCCGGAGCGGTCTACACCTTCTACGGGATGTGGCCTCTCCTCCTGCTCCTG	2400
Query	2742	CTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGC	2801 2460
Sbjct Query	2401	TTGGCGTTGCCCCAGCGGGCGTACGCGCTGGACACGGAGGTGGCCGCGTCGTGTGGCGGT GTTGTTCTTGTCGGGTTAATGGCGCTGACTCTGTCGCCATATTACAAGCGCTATATCAGC	2861
Sbjct	2461		2520
Query	2862	TGGTGCATGTGGTGGCTTCAGTATTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGG	2921
Sbjct	2521		2580
Query	2922	GTTcccccccTCAACGTCCgggggggCGCGATGCCGTCATCTTACTCATGTGTG-TAGT	2980
Sbjct	2581		2639
Query	2981	ACACCCGACCCTGGTATTTGACATCACCAAACTACTCCTGGCCATCTTCGGACCCCTTTG	3040
Sbjct	2640	ACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGGCCGTCTTCGGACCCCTTTG	2699
Query	3041	GATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCG	3100
Sbjct	2700	gattcttcaagccagtttgcttaaagtaccctactttgtgcgcgtccaaggccttctccg	2759
Query	3101	GATCTGCGCGCTAGCGCGGAAGAT-AGCCGGAGGTCATTACGTGCAAATGGCCATCATCA	3159
Sbjct	2760	GTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTACGTGCAAATGGTCATCATTA	2818
Query	3160	AGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCGAGACTGGG	3219
Sbjct	2819	AGTTAGGGGCGCTTACTGGCACCTATGTTTATAACCATCTCACTCTTCTGGGACTGGG	2878
Query	3220 2879	CGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGG	3279 2938
Sbjct Query	3280	AGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCATCAACGGCT	3339
Sbjct	2939		2998
Query	3340	TGCCCGTCTCTGCCCGTAGGGGCCAGGAATACTGCTTGGGCCAGCCGACGGAATGGTCT	3399
Sbjct	2999		3058
Query	3400	CCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCC	3459
Sbjct	3059		3118
Query	3460	TAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC	3519
Sbjct	3119		3178
Query	3520	AGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGA	3579
Sbjct	3179	AGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGCATCAATGGGGTGTGCTGGA	3238
Query	3580	CTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGTCATCCAGA	3639
Sbjct	3239	ctgtctaccacgggccggaacgaggaccatcgcgtcacccaagggtcctgtcatccaga	3298

Query	3640	TGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCAT	3699
Sbjct	3299	tigtataccaatigtagaccaagaccttigtigigigictigiccigicticigicaagigtagccigicticat	3358
Query	3700	TGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCA	3759
Sbjct	3359	ŤĠĂĊĂĊĊĊŤĠĊĂĊŤŤĠĊĠĠĊŤĊĊŤĊĠĠĂĊĊŤŤŤĂĊĊŤĠĠŤĊĂĊĠĂĠĠĊĂĊĠĊĊĠĂŤĠŤĊĀ	3418
Query	3760	TTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCT	3819
Sbjct	3419	TTCCCGTGCGCCGGCGGGTGATAGCAGGGGCAGCCTGCTGTCGCCCCGGCCCATTTCCT	3478
Query	3820	ACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTAT	3879
Sbjct	3479	ACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGGCACGCCGTGGGCATAT	3538
Query	3880	TCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGA	3939
Sbjct	3539	TTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTGGACTTTATCCCTGTGGAGA	3598
Query	3940	ACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGC	3999
Sbjct	3599	ACCTAGAGACAACCATGAGGTCCCCGGTGTTCACGGATAACTCCTCTCCACCAGTAGTGC	3658
Query	4000	CCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGG	4059
Sbjct	3659	CCCÁGÁGCTTCCÁGGTGGCTCÁCCTCCÁTGCTCCÁCAGGCÁGCGGCÁÁAÁAGCÁCCÁÁGG	3718
Query	4060	TCCCGGCTGCGTACGCGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTG	4119
Sbjct	3719	†CCCGGCTGCATATGCAGCTCAGGGCTATAAGGTGCTAGTACTCAACCCCTCTGTTGCTG	3778
Query	4120	CAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGA	4179
Sbjct	3779	ĊAAĊAĊŢĠĠĠĊŢŢĠĠŢĠĊŢŢĄĊAŢĠŢĊĊĀAĠĠĊŢĊĀŢĠĠĠĀŢĊĠĀŢĊĊŢĀĀĊĀŢĊĀĠĠĀ	3838
Query	4180	CCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCC	4239
Sbjct	3839	ccggggtgagaacaattaccactggcagccccatcacgtactccacctacggcaagttcc	3898
Query	4240	TTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGAGTGCCACT	4299
Sbjct	3899	ttgccgacggcggtgctcggggggcgcttatgacataataatttgtgacgagtgccact	3958
Query	4300	CCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGG	4359
Sbjct	3959	ĊĊĀĊĠĠĀŤĠĊĊĀĊĀŤĊĊĀŤĊŤŤĠĠĠĊĀŤĊĠĠĊĀĊŤĠŤĊĊŤŤĠĀĊĊĀĀĠĊĀĠĀĠĀĊŤĠĊĠĠ	4018
Query	4360	GGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATC	4419
Sbjct	4019	ĠĠĠĊĠĀĠĀĊŦĠĠŤŦĠŦĠĊŦĊĠĊĊĀĊĊĠĊĊĀĊĊĊŤĊĊĠĠĠĊŦĊĊĠŦĊĀĊŦĠŦĠĊĊĊĀŦĊ	4078
Query	4420	CTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTA	4479
Sbjct	4079	ccaacatcgaggaggttgctctgtccaccaccggagagatccctttttacggcaaggcta	4138
Query	4480	TCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAT	4539
Sbjct	4139	tcccctcgaagtaatcaagggggggagacatctcatcttctgtcattcaaagaagaagt	4198
Query	4540	GCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCG	4599
Sbjct	4199	gcgacgaactcgccgcaaagctggtcgcattgggcatcaatgccgtggcctactaccgcg	4258
Query	4600	GTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTC	4659
Sbjct	4259	GTCTTGACGTGTCCGTCATCCCGACCAGCGGCGATGTTGTCGTCGTGGCAACCGATGCCC	4318
Query	4660	TCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTC	4719
Sbjct	4319	TCATGACCGGCTATACCGGCGACTTCGACTCGGTGATAGACTGCAATACGTGTGTCACCC	4378
Query	4720	AGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGG	4779
Sbjct	4379	AGACAGTCGATTTCAGCCTTGACCCTTCACCATTGAGACAATCACGCTCCCCCAGG	4438

Query	4780	ATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATA	4839
Sbjct	4439	atgctgtctcccgcactcaacgtcggggcaggactggcagggggaagccaggcatcaaca	4498
Query	4840	GATTTGTGGCACCGGGGGGGCCCCCTCCGGCATGTTCGACTCGTCCGTC	4899
Sbjct	4499	ĠĂŦŦŦĠŦĠĠĊĀĊĊĠĠĠĠĠĠĠĊĠĊĊĊĊĊĊĠĠĊĀŦĠŦŦĊĠĀĊŦĊĠŦĊĊĠŦĊ	4558
Query	4900	GCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCGAGACTACAGTTAGGCTAC	4959
Sbjct	4559	ġĊŦaŦĠaĊĠĊaĠĠĊŦĠŦĠĊŦŦĠĠŦaŦĠaĠĊŦĊaĊĠĊĊĠĊĊĠaĠaĊŦaĊaĠŦŦaĠĠĊŦaĊ	4618
Query	4960	GAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGG	5019
Sbjct	4619	ĠĀĠĊĠŦĀĊĀŦĠĀĀĊĀĊĊĊĠĠĠĠĊŦŦĊĊĊĠŦĠŦĠĊĊĀĠĠĀĊĊĀŦĊŦŦĠĀĀŦŦŦŦĠĠĠĀĠĠ	4678
Query	5020	GCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTG	5079
Sbjct	4679	ĠĊĠŦĊŦŦŦĂĊAĠĠĊĊŦĊĀĊŦĊĂŦĂŦĂĠĂŦĠĊĊĊĀĊŦŦŦĊŦĂŦĊĊĊĀĠĀĊĀĀĀĠĊĀĠĀĠŦĠ	4738
Query	5080	GGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCC	5139
Sbjct	4739	ĠĠĠĀĠĀĀĊĊŤŤĊĊŤŤĀĊĊŤĠĠŤĀĠĊĠŤĀĊĊĀĀĠĊĊĀĊĠŤĠŤĠĊĠĊŤĀĠĠĠĊŤĊĀĀĠĊĊĊ	4798
Query	5140	CTCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCC	5199
Sbjct	4799	ĊŤĊĊĊĊAŤĊĠŤĠĠĠĂĊĊĂĠĂŤĠŤĠĠĂĂĠŤĠŤŤŤĠĂŤŤĊĠĊĊŤĊĂĂĠĊĊĊĂĊĊĊŤĊĊĂŤĠ	4858
Query	5200	GGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACC	5259
Sbjct	4859	gĠĊĊāaĊāĊĊĊĊĠĊŦaŦāĊāĠāĊŦĠĠĠĊĠĊĠĊŦĠŦĊāĠāāŦĠāāaŦĊāĊĊĊĠĠĊĠĊāĊĊ	4918
Query	5260	CAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCT	5319
Sbjct	4919	ĊĀĠŦĊĀĊĊĀĀĀŦĀĊĀŦĊĀŦĠĀĊĀŦĠŦĊĠĠĊĊĠĀĊĊŦĠĠĀĠĠŦĊĠŦĊĀĊĠĀĠĊĀĊĊŦ	4978
Query	5320	GGGTGCTCGTTGGCGGCGCCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCG	5379
Sbjct	4979	ĠĠĠŦĠĊŦĊĠŦŦĠĠĊĠĠĊĠŦĊĊŦĠĠĊŦĠĊŦŦŦĠĠĊĊĠĊĠŦĂŦŦĠĊĊŦĠŦĊĂĂĊĂĠĠĊŦĠĊĠ	5038
Query	5380	TGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGG	5439
Sbjct	5039	ŤĠĠŤĊĂŤĂĠŤĠĠĠĊĂĠĠĠŤĊĠŤĊŤŤĠŤĊĊĠĠĠĂĂĠĊĊĠĠĊĀĂŤĊĂŤĂĊĊŤĠĂĊĀĠĠĠĀĀĠ	5098
Query	5440	TTCTCTACC-AGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAG	5498
Sbjct	5099	TCCTCTACCGAG-AGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAG	5157
Query	5499	CAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCG	5558
Sbjct	5158	CAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCG	5217
Query	5559	TCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAACTCGAGGTC	5618
Sbjct	5218	TCCCGTCAGGCAGAGGTTATCGCCCCTGCTGTCCAGACCAACTGGCAAAAACTCGAGACC	5277
Query	5619	TTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCA	5678
Sbjct	5278	TTCTGGGCGAAGCATATGTGGAACTTCATCAGTGGGATACAATACTTGGCGGGCTTGTCA	5337
Query	5679	ACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGC	5738
Sbjct	5338	ACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCTGTCACCAGC	5397
Query	5739	CCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTgggggggTGGGTGGCCCAG	5798
Sbjct	5398	ĊĊĂĊŦĂĂĊĊĂĊŦĀĠĊĊĂĂĂĊĊĊŦĊĊŦĊŦŦĊĂĂĊĂŦĂŦŦĠĠĠĠĠĠĠĠĠĠ	5457
Query	5799	CTCGCCGCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCATC	5858
Sbjct	5458	CTCGCCGCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGGCTTAGCTGGCGCCGCCATC	5517
Query	5859	GGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTG	5918
Sbjct	5518	GGCAGTGTTGGACTGGGGGAAGGTCCTCATAGACATCCTTGCAGGGTATGGCGCGGGCGTG	5577

Query	5919	GCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTG	5978
Sbjct	5578		5637
Query	5979	GTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCA	6038
Sbjct	5638	grcaarctactgcccgccarcctctcgcccggagccctcgtagtcggcgtggtctgtgca	5697
Query	6039	GCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTA	6098
Sbjct	5698	ġĊaataċtġċġċċġġċaċġttġġċċċġġġċġaġġġġġċaġtġċagtġġatġaaċċġġċtg	5757
Query	6099	ATAGCCTTCGCCTCCCGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGAT	6158
Sbjct	5758	ATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGAT	5817
Query	6159	GCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGA	6218
Sbjct	5818	GCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGA	5877
Query	6219	CTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGAC	6278
Sbjct	5878	CTGCACCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGAC	5937
Query	6279	ATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTC	6338
Sbjct	5938 6339	ATCTGGGACTGGATATGCGAGTGTTGAGCGACTTTAAGACCTGGCTAAAAGCTAAGCTC	5997 6398
Query Sbjct	5998	ATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGG	6057
Query	6399	CGAG-GAGACGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGT	6457
Sbjct	6058		6116
Query	6458	CAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGAC	6517
Sbjct	6117		6176
Query	6518	GTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAA	6577
Sbjct	6177		6236
Query	6578	GTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTT	6637
Sbjct	6237	GTTCGCGCTATGGAGGGTGTCTGCAGAGGAATATGTGGAGATAAGGCAGGTGGGGGGACTT	6296
Query	6638	CCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGC	6696
Sbjct	6297	ccactacgtga-cgggtatgactactgacaatctcaaatgcccgtgccaggtcccatcgc	6355
Query	6697	CCGAATTTTCACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGC	6756
Sbjct	6356	CCGAATTTTCACAGAATTGGACGGGGTGCGCCTACATAGGTTTGCGCCCCCCTGCAAGC	6415
Query	6757	CCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGC	6816
Sbjct	6416	CCTTGCTGCGGGAGGAGTATCATTCAGAGTAGGACTCCACGAATACCCGGTAGGGTCGC	6475
Query	6817	AATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCT	6876
Sbjct	6476	AATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACGTCCATGCTCACTGATCCCT	6535
Query	6877	CCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGG-TCACCCCCTTCTATG	6935
Sbjct	6536 6936	CCCATATAACAGCAGAGGCGGCCGGGCGAAGGTTGGCGAG-GGGATCACCCCCCTCTGTG GCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAAC	6594 6995
Query Sbjct	6595	GCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAAC	6654
Query	6996	CATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGC	7055
Sbjct	6655	CATGACTCCCTGATGCTGAGCTCATAGAGGCTAACCTCCTATGGAGGCAGGAGATGGGC  CATGACTCCCCTGATGCTGAGCTCATAGAGGCCAACCTCCTATGGAGGCAGGAGATGGGC	6714
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Query	7056	GGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCG	7115
Sbjct	6715	GGCAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGATTCTGGACTCCTTCGATCCG	6774
Query	7116	CTTGTGGCAGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCT	7175
Sbjct	6775	ĊŤŤĠŤĠĠĊĠĠĂĠĠĂĠĠĂĊĠĂĠĊĠĠĠĂĠĂŤĊŤĊĊĠŤĂĊĊĊĠĊĂĠĂĂĂŤĊĊŤĠĊĠĠĂĂĠŤĊŤ	6834
Query	7176	CGGAGATTCGCCCGGCCCTGCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCTAGTA	7235
Sbjct	6835	CGGAGATTCGCCCAGGCCCTGCCCGTTTGGGCGCGGCCGGACTATAACCCCCCGCTAGTG	6894
Query	7236 6895	GAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCT	7295 6954
Sbjct Query	7296	GAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCATGGCTGTCCGCTTCCACCT  CCACGGTCCCCTCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCA	7355
Sbjct	6955		7014
Query	7356	ACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTTTTGGCAGCTCCTCAACTTCC	7415
Sbjct	7015		7074
Query	7416	GGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCC	7475
Sbjct	7075		7134
Query	7476	GACTCCGACGTTGAGTCCTATTCTTCCATGoooccTGGAGGGGGAGCCTGGGGATCCG	7535
Sbjct	7135	GACTCCGACGCTGAGTCCTATTCCTCCATGCCCCCCTGGAGGGGGAGCCTGGGGGATCCG	7194
Query	7536	GATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTG	7595
Sbjct	7195	ĠĀŢĊŢŢŖĠĊĠĀĊĠĠŢĊĀŢĠĠŢĊĀŖĠŢŖŖĠŢĠĀĠĠĊĊĀĀĊĠĊĠĠĀĠĠŢĠŢĊĠŢĠ	7254
Query	7596	TGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAA	7655
Sbjct	7255	TGCTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCACCCCGTGCGCCGCGGAAGAA	7314
Query	7656	CAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTAT	7715
Sbjct Query	7315 7716	CAGAAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACGTCACCACAATTTGGTGTAT  TCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAA	7374 7775
Sbjct	7375		7434
Query	7776	GTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTG	7835
Sbjct	7435		7494
Query	7836	AAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAA	7895
Sbjct	7495		7554
Query	7896	TCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCAC	7955
Sbjct	7555	TCCAAGTTTGGTTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAACCCAC	7614
Query	7956	ATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATC	8015
Sbjct	7615	ATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAACACCAATAGACACTACCATC	7674
Query	8016	ATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGT	8075
Sbjct	7675	ATGGCTAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGT	7734
Query	8076	CTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTG	8135
Sbjct	7735 8136	CTCATCGTGTTCCCCGATCTGGGCGTGCGCGTGTGCGAAAAGATGGCTTTGTACGACGTG GTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGG	7794 8194
Query Sbjct	7795	GITAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGG	7853
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Query	8195	ACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTC	8254
Sbjct	7854	ACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAAACCCCAATGGGGTTCTC	7913
Query	8255	GTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGC	8314
Sbjct	7914	GTATGATACCCGCTGCTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGC	7973
Query	8315	AATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGA	8374
Sbjct	7974	AATCTACCAATGTTGTGACCTCGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACCGA	8033
Query	8375	GAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAG	8434
Sbjct	8034	GAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAGAACTGCGGCTATCGCAG	8093
Query	8435	GTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAA	8494
Sbjct	8094	GTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAA	8153
Query	8495	GGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGA	8554
Sbjct	8154	GGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGA	8213
Query	8555	CGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGC	8614
Sbjct	8214	CGACTTAGTCGTTATCTGTGAAAGCGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGC	8273
Query	8615	CTTCACGGAGGCTATGACCAGGTACTCCGcececcccgggggacccccaACAACCAGAATA	8674
Sbjct	8274	ĊŢŢĊŔĊĠĠŔĠĠĊŢŔŢĠŔĊĊŔĠĠŢŔĊŢĊĊĠĊĊĊĊĊĊŢĠĠĠĠŔĊĊĊĊĊŔĊŔĊŔĠŔŔŢŔ	8333
Query	8675	CGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGG	8734
Sbjct	8334	ĊĠĂĊŤŤĠĠĂĠĊŤĊĂŤĂĂĊĂŤĊĂŤĠĊŤĊĊŤĊĊĂĂĊĠŤĠŤĊĂĠŤĊĠĊĊĊĂĊĠĂĊĠĠĊĠĊŤĠĠ	8393
Query	8735	AAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGA	8794
Sbjct	8394	AAAGAGGGTCTACTACCTCACCCGTGACCCTACAACCCCCCTCGCGAGAGCTGCGTGGGA	8453
Query	8795	GACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCAC	8854
Sbjct	8454	ĠĂĊĂĠĊĂĂĠĂĊĂĊĂĊŤĊĊĂĠŤĊĂĂŤŤĊĊŤĠĠĊŤĂĠĠĊĂĂĊĂŤĂĂŤĊĂŤĠŤŤŤĠĊĊĊĊĂĊ	8513
Query	8855	ACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCA	8914
Sbjct	8514	ACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTTATAGCCAGGGACCA	8573
Query	8915	GCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGA	8974
Sbjct	8574	ĠĊŢŢĠĂĂĊĂĠĠĊĊĊŢĊĠĂŢŢĠĊĠĂĠĂŢĊŢĂĊĠĠĠĠĊĊŢĠĊŢĂĊŢĊĊĂŢĂĠĂĂĊĊĂĊŢŢĠĂ	8633
Query	8975	TCTACCTCCAATCATTCAAAGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTC	9034
Sbjct	8634	ŤĊŦŔĊĊŤĊĊŔŔŤĊŔŤŤĊŔŔŔĠŔĊŤĊĊŔŤĠĠĊĊŤĊŔĠĊĠĊŔŢŤŤŤĊŔĊŤĊĊŔĊŔĠŤŤŔĊŤĊ	8693
Query	9035	TCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCG	9094
Sbjct	8694	ŤĊĊĀĠĠŤĠĀĀĀŤŦĀĀŤĀĠĠĠŤĠĠĊĊĠĊĀŤĠĊĊŤĊĀĠĀĀĀĀĊŤŤĠĠĠĠŤĀĊĊĠĊĊĊŤŤĠĊĠ	8753
Query	9095	AGCTTGGAGACACCGGGCCCGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGC	9154
Sbjct	8754	agcttggagacaccgggcccggagcgtccgcgctaggcttctggccagaggaggcaggc	8813
Query	9155	TGCCATATGTGGCAAGTACCTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9214
Sbjct	8814	rgccatargrggcaagtaccrctrcaacrgggcagtaagaacaaagcrcaaacrcacrcc	8873
Query	9215	AATAGCGGCCGCTGGCCGGACTTGTCCGGTTGGTTCACGGCTGGCT	9274
Sbjct	8874	aatagcggccgctggccagctggacttgtccggctggttcacggctggct	8933
Query	9275	AGACATTTATCACAGCGTGTCTCATGCCCGGCCCCGCTGGTTCTGGTTTTGCC 9327	
Sbjct	8934	AGACATTTATCACAGCGTGTCTCATGCCCGGCCCCGCTGGATCTGGTTTTGCC 8986	

## >gb|AR118703.1|AR118703 Sequence 88 from patent US 6150087 Length=8316

Score = 1.326e+04 bits (7179), Expect = 0.0 Identities = 7944/8323 (95%), Gaps = 14/8323 (0%) Strand=Plus/Plus

Query	684	AGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCATG	743
Sbjct	1	AGGTCGCGCAATTTGGGTAAGGTCATCGATACCCTTACGTGCGGCTTCGCCGACCTCATG	60
Query	744	GGGTACATACCGCTCGTCGGCGCCCCTCTTGGAGGCGCTGCCAGGGCCCTGGCGCATGGC	803
Sbjct	61	gggtacataccgctcgtcggcgcccctcttggaggcgctgccagggccctggcgcatggc	120
Query	804	GTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTTC	863
Sbjct	121	GTCCGGGTTCTGGAAGACGGCGTGAACTATGCAACAGGGAACCTTCCTGGTTGCTCTTTC	180
Query	864	TCTATCTTCCTTCTGGCCCTGCTCTCTTGCCTGACTGTGCCCGCTTCAGCCTACCAAGTG	923
Sbjct	181	TCTATCTTCCTTCTGGCCCTGCTCTTGCTTGACTGTGCCCGCCTTCGGCCTACCAAGTG	240
Query	924	CGCAATTCCTCGGGGCTTTACCATGTCACCAATGATTGCCCTAACTCGAGTATTGTGTAC	983
Sbjct	241	CGCAACTCCACGGGGCTTTACCACGTCACCAATGATTGCCCTAACTCGAGTATTGTGTAC	300
Query	984	GAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGTGTCCCTTGCGTTCGCGAGGGTAAC	1043
Sbjct	301	GAGGCGGCCGATGCCATCCTGCACACTCCGGGGTGCGTCCCTTGCGTTCGTGAGGGCAAC	360
Query	1044	GCCTCGAGGTGTTGGGTGGCGGTGACCCCCACGGTGGCCACCAGGGACGGCAAACTCCCC	1103
Sbjct	361	GCCTCGAGGTGTTGGGTGGCCATGACCCCTACGGTGGCCACCAGGGATGGCAAACTCCCC	420
Query	1104	ACAACGCAGCTTCGACGTCATATCGATCTGCTTGTCGGGAGCGCCACCCTCTGCTCGGCC	1163
Sbjct	421	GCGACGCAGCTTCGACCTCGATCTGCTTGTCGGGAGCGCCACCCTCTGTTCGGCC	480
Query	1164	CTCTACGTGGGGGACCTGTGCGGGTCTGTCTTTCTTGTTGGTCAACTGTTTACCTTCTCT	1223
Sbjct	481	CTCTACGTGGGGACCTATGCGGGTCTGTCTTTCTTGTCGGCCAACTGTTCACCTTCTCT	540
Query	1224	CCCAGGCGCCACTGGACGCCAAGACTGCCAATTGTTCTATCTA	1283
Sbjct	541	CCCAGGCGCCACTGGACGCAAGGTTGCAATTGCTCTATCTA	600
Query	1284	GGTCATCGCATGGCATGGGATATGATGATGACTGGTCCCCTACGGCAGCGTTGGTGGTA	1343
Sbjct	601	GGTCACCGCATGGCATGGGATATGATGATGACTGGTCCCCTACGACGGCGTTGGTAATG	660
Query	1344	GCTCAGCTGCTCCGGATCCCACAAGCCATCATGGACATGATCGCTGGTGCTCACTGGGGA	1403
Sbjct	661	GCTCAGCTGCTCCGGATCCCACAAGCCATCTTGGACATGATCGCTGGTGCTCACTGGGGA	720
Query	1404	GTCCTGGCGGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGTG	1463
Sbjct	721	GTCCTGGCGGCATAGCGTATTTCTCCATGGTGGGGAACTGGGCGAAGGTCCTGGTAGTG	780
Query	1464	CTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAATGCCGGCCG	1523
Sbjct	781	CTGCTGCTATTTGCCGGCGTCGACGCGGAAACCCACGTCACCGGGGGAAGTGCCGGCCAC	840
Query	1524	ACCACGGCTGGGCTTGTTGGTCTCCTTACACCAGGCGCCAAGCAGAACATCCAACTGATC	1583
Sbjct	841		900
Query	1584	AACACCAACGGCAGTTGGCACATCAATAGCACGGCCTTGAATTGCAATGAAAGCCTTAAC	1643
Sbjct	901	AACACCAACGGCAGTTGGCACCTCAATAGCACGGCCCTGAACTGCAATGATAGCCTCAAC	960
Query	1644	ACCGGCTGGTTAGCAGGGCTCTTCTATCAACACAAATTCAACTCTTCAGGCTGTCCTGAG	1703
Sbjct	961	ACCGGCTGGTTGGCAGGGCTTTTCTATCACCACAAGTTCAACTCTTCAGGCTGTCCTGAG	1020

Query	1704	AGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGGGTCCTATCAGTTAT	1763
Sbjct	1021	aggctagccagctgccgaccccttaccgattttgaccagggctggggccctatcagttat	1080
Query	1764	GCCAACGGAAGCGCCTCGACGACGCCCTACTGCTGGCACTACCCTCCAAGACCTTGT	1823
Sbjct	1081	ĠĊĊāĀĊĠĠĀĀĠĊĠĠĊĊĊĠĀĊĊĀĠĊĠĊĊĊŤĀĊŤĠĊŤĠĠĊĀĊŤĀĊĊĊĊĊĀĀĀĀĊĊŤŤĠC	1140
Query	1824	GGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCACTCCCAGCCCCGTG	1883
Sbjct	1141	ĠĠŦĂŦŦĠŦĠĊĊĊĠĊĠĂĀĠĀĠŦĠŦĠŦĠŦĠĠĊĊĊĠĠŦĀŦĀŦŦĠĊŦŦĊĀĊŦĊĊĊĀĠĊĊĊĊĠŦĠ	1200
Query	1884	GTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTACAGCTGGGGTGCAAATGATACG	1943
Sbjct	1201	ĠŤĠĠŤĠĠĠAĊĠĠĊĊĠĠĊĠĠĠĠĠĠĊĠĊĊĊĠĊĊŤĠĊĠĠĠŢĠĠĠĠŢĠ	1260
Query	1944	GATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGTTCGGTTGTACCTGG	2003
Sbjct	1261	ĠACĠŦĊŦŦĊĠŦĊĊŦŦAAĊAAŦAĊĊAĠĠĊĊAĊĊĠĊŦĠĠĠĊAAŦŦĠĠŦŦĊĠĠŦŦĠŦAĊĊŦĠĠ	1320
Query	2004	ATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTGTCATCGGAGGGGTG	2063
Sbjct	1321	atgaactcaactggattcaccaaagtgtgcggagcgcctccttgtgtcatcggaggggcg	1380
Query	2064	GGCAACAACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGAAGCCACATAC	2123
Sbjct	1381	gcaacacacccigcactgcccactgattgcttccgcaagcatccggacgccacatac	1440
Query	2124	TCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCGACTACCCGTATAGG	2183
Sbjct	1441	tctcggtgcggctccggtccttggatcacacccaggtgcctggtcgactacccgtatagg	1500
Query	2184	CTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCAGGATGTACGTGGGA	2243
Sbjct	1501	ĊŢŢŢĠĠĊĸŢŢĸŢĊĊŢŢĠŢĸĊĊĸŢĊĸĸĊĸĊĊĸŢĸŢŢŢĸĸĸĸĸĸĸĸ	1560
Query	2244	GGGGTCGAGCACAGGCTGGAACGGCCCTGCAACTGGACGCGGGGCGAACGCTGTGATCTG	2303
Sbjct	1561	ĠĠĠĠŦĊĠĀĀĊĀĊĀĠĠĊŦĠĠĀĀĠĊŦĠĊĊŦĠĊĀĀĊŦĠĠĀĊĠĊĠĠĠĠĊĠĀĀĊĠŦŦĠĊĠĀŦĊŦĠ	1620
Query	2304	GAAGACAGGGACAGGTCCGAGCCCGTTGCTGCTGTCCACCACACAGTGGCAGGTC	2363
Sbjct	1621	ĠAAĠAĊĀĠĠĠĀĊĀĠĠŤĊĊĠĀĠĊŤĊĀĊĊĊĠŤŤĀĊŤĠĊŤĠĀĊĊĀĊŦĀĊĀĊĀĠŤĠĠĊĀĠĠŤĊ	1680
Query	2364	CTTCCGTGTTCTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCATCCACCTCCACCAG	2423
Sbjct	1681	ĊŢĊĊĠŢĠŢŢĊĊŢŢĊĂĊĂĂĊĊŢĀĊĊĂĠĊĊŢŢĠŢĊĊĂĊĊĠĠĊĊŢĊĂŢĊĊĂĊĊŢĊĊĂĊĊĀĠ	1740
Query	2424	AACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCGCGTCCTGGGCCATT	2483
Sbjct	1741	AACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCGCGTCCTGGGCCATT	1800
Query	2484	AAGTGGGAGTACGTCGTTCCTGTTCCTTCTGCTTGCAGACGCGCGCG	2543
Sbjct	1801	AAGTGGGAGTACGTCGTTCTCTGCTTCTGCAGACGCGCGCG	1860
Query	2544	TTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACTC	2603
Sbjct	1861	TTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGAACCTCGTAATACTT	1920
Query	2604	AATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2663
Sbjct	1921	aatgcagcatccctggccggacgcacggtcttgtatccttcct	1980
Query	2664	GCGTGGTATCTGAAGGGTAGGTGGGTGCCCGGAGCGGTCTACGCCCTCTACGGGATGTGG	2723
Sbjct	1981	gcatggtatttgaagggtaagtgggtgcccggagcggtctacaccttctacgggatgtg	2040
Query	2724	CCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATACGCACTGGACACGGAGGTG	2783
Sbjct	2041	cctctcctcctgctcctgttgccgttgccccagcgggcgtacgcgctggacacggaggtg	2100
Query	2784	GCCGCGTCGTGTGCCGCCTTGTTCTCGCGTTAATGGCGCTGACTCTGTCGCCATAT	2843
Sbjct	2101	GCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGATGGCGCTGACTCTGTCACCATAT	2160

bety         2144         TACAGGGCCTATATCAGGTGGTGCAGTTATTTTCTACCAGAGGTGAA         29.04           Sbjet         2161         TACAGGGCCTATATCAGTGGTGCTTTGTGGTGGTTCAGTATTTTCTACCAGAGTGGAA         22.20           Ouery         2904         COCAGATGCACGTGTGGTTCCCCCCTCAAGGTGCAGTGCCCGTCATCCCCCTCACAGTCCCCCTCACGTCCTCCCCTCACAGTCCCCCCCTCACAGTCCCCGAGCCCCTCACCTCACCCTCACCTCACAGTCCCAGAGCCCCTCACCTCCACCTCACCCCCCCC				
Spict         2161         TACAGGGCTATATCAGCTGGTGGCTTCAGGTCCAGGTTCAGCAGTGGCATCACT         2963           Ouery         2964         GCGCACCTGCAGTTGGGGTTCCCCCCCTAACGTCCAGGTGCGCAGCAGCGCATCCCTACC         2280           Ouery         2964         THACTCAGTGTGGTTCACCCCCCCCTGGATTTTGACATCACCCACC	Query	2844		2903
Spic         2221         CSCGACACTGCACCTGGGATTCCCCCCTCAAACTCCGAGGGGGGGG	Sbjct	2161		2220
Sbjet         2221         GGGGAACTGGACGTGGGATCCCCCCCTGAACGTGGGAGGGGGGGCGAGGCGCGTCATC         2280           Query         2964         TTACTCATGTGTGTACACCCGGACCCTGGTATTTGACTCACAACTACTCCTGGGC         3022           Sbjet         2281         TTACTCATGTGTGTGTACACCCGGACCTTGGTATTTGACACCAAACTACTCCTGGGGG         3022           Sbjet         2340         CATCTTGGGGCCCTTTGGGGGGGTATTTGAGGCCAGTTTGCTTGTGGGGG         3082           Sbjet         2400         GGTCTAGGACCCTTTGGGGGCGTTAGCGGGGAGGATAAGTCACTATTAGGGCGGTAGCCGTATAGGACCTTTGGGACCCTTTGGGATCTTTGGGGGCGTTAGCGGGAGGTATTAGG         3141           Sbjet         2400         CGTCCAAGGCCTTTCCCGGTTCTGCGGGTTAGCCGGAGAGTAATCGCAGGGGGAGATCTGCACTATAACCAACTCCA         2578           Query         3142         TGCAAATGGCCATCACTAACTACTAGGGGCCCTAACGGCCTATGTGCACTATAACCACTCA         2518           Sbjet         2519         TCCACTTCGAGACTGGGCCCAAACGGCTTGCGAGATCTGGCCGTGGTGAACCAC         2578           Query         3262         CCCCCTTTCGAGACTGGGCCCAAACGGCTTGCAGAGGGGGGAGATACTGGCCGGGGGGGAGACCAA         2578           Query         3262         TCGCTTCTCCCCAAATGGACAACGGTTCCACAGGGGGGGAGAATACGGCCGGGTGGGGGGAACCAAGCGCAACGACCAAGTCACGCCCAACGACAACGGCTTCACAGGGGGGAGAACACGAGCAACGACAACGACCAACTACAGCACAAGTCACAGCCAAGAGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACAACGACACAACGACACAACGACAACGACACAACGACACAACGACACAACGACAA	Query	2904		2963
Sbjet         2281         THACTAGRIGHOTO-TO-GACACCGGACTTGGATTTGGACACCAAATTGCTGGGCC         2339           Query         3023         CATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCGTGCG         3082           Sbjet         2340         COTTTCGGACCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCTACTTCTGTGCG         2399           Query         3032         CATCTAAGGCCTTTCCCGGATTCTCAAGCCAGTTTGCTTAAAGTAACCCTACTTTTTTGC         2141           Sbjet         2400         COTTCAAGGCCTTTCTCCGGATTGCGGGTTACCGGAGAGATAT-AGCCGGAGAGATTACG         2458           Query         3142         TGCAAATGGCATCATCAAGTTAGGGGCGCTAACTGGGGCGCACACCTATGTTTATAAACCATCTA         2201           Sbjet         2459         TCACAATGGCATCATCTAAGGGGCGCCAACACGCCCAGGACACTTGTGTTATAAACCATCTA         2218           Query         3202         CCCCCTCTTCCTGCGACTGGGGCGCCAACACGCCTGCGGGATTCTGGCGCGCTGCTGGGGGCCGTGCGGGGGCGAGTACCGCCGGGTGCG         2321           Sbjet         2519         CTCCTTTCTCCCAAATGGAGCCAAAGCTCATCACGTGGGGGGCAGATACCGCCCGGTGCG         2638           Query         3322         CTCCCTTTCCCCAAATGGACCAAAGCTCATCACGGGGGGAGATACCGCCCGGTGCG         2638           Query         3322         CTCCATCTTCCCCAAATGGACCACAAGGCTTCTCCCCGTCACGGGGGCCAACACACCCCCCCC	Sbjct	2221		2280
Query         3023         CATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTCCTTAAAGTCCCCTACTTCGTGGC         3082           Sbjet         2340         CGTCTTCGGACCCCTTTTGGATTCTTCAAGCCAGTTTCCTTAAAGTACCCTACTTTGTGGC         2399           Query         3083         CGTTCAAGGCCTTCTCCGGATCTGCGGCTAGCGGGAGATAAACCCGGAGGTCATTAGC         3141           Sbjet         2400         CGTCCAAGGCCTTCTCCGGATTGTGGCGCGTTAGCGGCAGAGATAACCAGTACATAAGTTAGGGGCGCTTAGTGGCACCTATGTTATAACCATCTCA         2201           Sbjet         2459         TGCAAATGGCCATCATCAAGTTAGGGGCCCTTACTGGCACCTATGTTATAACCATCTCA         2218           Query         3202         CCCCTCTTCGGAGACTGGGGCCAAACGGCCTGCAGGAGTTGGCCGCTGTGGAACCAG         2578           Query         3262         TGCGTTTCTGCGAATGGAGACCAAACGGTCTGCAGAATTTGGAGAGTTAGGCGCGGGGGCGAGATACCGCCCGGGGGGCGATTCCCCCCAGGATTACCGCCCGGGGCGCGGAATTCCGCCCGGGGCGCGGAATTCCGCCCGGGGCGCGGAATTCCGCCCGGGGCCGGGAATTCCGCCCGGGGCCGGGAATTCCGCCCGGGGCCGGAATTCCGCCCGGGCGCGGAACTCCGCCGGGCGCGGAACTCCGCCGGGCCGGAACGCGCGGGAATACCGCCCCGGGCGCGGAACGACGATTCCGCCCCCCACACGGGGTACCGCC         2638           Query         3322         GGGCGATCAATCAACGCCTTGCCCTGTCTCCCCCCCAGAGGGCCGAATACCGCCCGGGCCGGAACACGCCGCGGAATACCGCCCCCCCC	Query	2964		3022
Sbjet         2340         CGTTTGGGACCCTTTTGGATTCTAAGGCAGTTTGGTTTAAAGTCAGTC	_	2281	TTACTCATGTGTGCT-GTACACCCGACTCTGGTATTTGACATCACCAAATTGCTGCTGGC	2339
Query         3083         CGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATA-AGCCGGAGGTCATTACG         2458           Sbjet         2400         CGTCCAAGGCCTTCTCCGGTTTACCGGTTTAGCGGAAGATAGTC-GGAGCCTATACG         2458           Query         3142         TGCAAATGGCCATCATCAAGTTAGGGCGGTTACTGGCACCTATGTGTATAACCATCTCA         2518           Sbjet         2459         TGCAAATGGTCATCAATGTTAAGTTAGGGCGCTTACTGGCACCTATGTTTATAACCATCTCA         2518           Query         3202         CCCCTCTTCGAGGACTGGGCGCACAACGGCTTCTGGAGATCTGGCCGTGGCTGTGGAACCAG         2578           Sbjet         2519         CTCCTCTTCCCGGAATGGAGACAAGGTCTACCTGGGGGGCAGATACCGCCGCGTGGG         3221           Sbjet         2579         CTGTCTTCTCCCGAATGGAGACCAAGGTCTACCAGTGGGGGCAGATACCGCCGCGTGGG         3221           Sbjet         2579         TCGTCTTCTCCCCAAATGGAGCCAAGGCTTCACCCGTTCTGCCGTAGGGGCCAGGAATACCGCCGCGTGGG         2588           Ouery         3322         GTGACATCATCAACGGCTTGCCTGTTTTCCCCCGTAGGGGGCCAGGAATACTGCCCGGCC         2758           Query         3424         AGCCGACGGAATGGTCTCAAGGGGTGGAGGTTGCTGCGCCCATCACGGCGTACGCCC         2758           Query         3425         AGCCGACGAGATGGTCCCAAGGGGTGAGAGTTCTGCAGCCCACACCCCACACCACCACCACCACCACCACCACC	Query	3023		
Sbjet         2400         CGTCAAGGCCTTCCGGTTTCGGGTTTAGGGGCAGATAT-GGGGCCATTAGG         2458           Ouery         3142         TGCAAATGGCCATCATCAGGTTAGGGGCGGTTACTGGCACCTATGTGTATAACCATCTCA         2518           Sbjet         2459         TGCAAATGGCCATCATTAAGTTAGGGCGCTTACTGGCACCTATGTTTATAACCATCTCA         2518           Query         3202         CCCCTCTTCGAGACTGGGCGCACAACGGCTTGCTGGCAGTGTGTTATAACCATGT         2578           Sbjet         2519         CTCCTTTCCGGACTGGGCCGCACAACGGCTTGCGGGGGGCGGGGGGTGGAACCAG         2578           Query         3262         TGGTCTTCTCCCCAATGGGGACCAACGGCTTGCAGGGGGGCAGGATACCGCCCGGTGGG         2638           Sbjet         2579         TGGTCTTCTCCCAAATGGGACCAACGTCTTCCCCGTTGGGGGGCCAGGAGATACCGCCCGTGGG         2638           Sbjet         2639         GTGACATCATCAACGGCTTGCCCTGTCTTCCCCGTAGGGGCCAGGAGATACTGCTCGGGC         2788           Sbjet         2699         CAGCCGACGGATGGTCTCCAAGGGGTTGCAGGCCCCATCACGCGGGAACACCCC         2758           Query         3421         AGCAGACAACGACGGCCTCCTAAGGGTGGAGGTTGCTGCCCCGCACACACA	_		CGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTACCCTACTTTGTGCG	
Query         3142         TGCAAATGGCCATCATCAAGGTTAGGGCGCTTACTGGCACCTATGTGTATAACCATCTCA         2518           Sbjet         2459         TGCAAATGGTCATCATTAGGTTAGGGGCCTTACTGGCACCTATGTTTATAACCATCTCA         2518           Query         3202         CCCCTCTTCGAGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTGAACCAG         261           Sbjet         2519         CTCCTTCTCGGGACTGGGCGCAAACGGCTTGCGAGATCTGGCCGTGGCTGTGAACCAG         2578           Query         3262         TCGTCTTCTCCCCGAATGGAGCCAAGCCTATCACGTGGGGGGCAGATACCGCCGCGTGCG         3321           Sbjet         2579         TCGTCTTCTCCCCAAATGGAGACCAAGCCTATCACGTGGGGGGCAGATACCGCCGGTGCG         2638           Query         3322         GTGACATCATCAACGGCTTGCCCCGTCTCTCCCCGTAGGGGCAGATACTGCTTGGGC         2698           Query         3382         CAGCCGACGGAATGGTCTCCAAGGGGTGAGGTTCCTCAGGGGGAGATACTGCTCGGCC         2798           Query         3382         CAGCCGATGGAATGGTCTCCAAGGGGTGAGGTTCCTCAAGGCTACACCCCCAAACACCTCCCAACACGGGACAAAAACC         2818           Query         3442         AGCAGACGAGAGGCCTCCTAAGGTGTATAATCACACGCCTACACCGCAAACACCCCCAACACCGCGTACCACCACACACA	_			-
Sbjet         2459         TGCAAATGGTCATCATTAAGTTAAGGGGGCGCTTACTGGCACCTATGTTTATACCATCTCA         2518           Query         3202         CCCCTCTTCGAGACTGGGGGCACAACGGCTGGGGGACTTGGCGTGGTGGAACCAG         3261           Sbjet         2519         CTCGTCTTCGGGACTGGGGGCACAACGGCTTGGGGGGTGGTGTGTGAGACCAG         2578           Query         3262         CTGTCTTCTCCCGAATGGGGGCACAACGGCTTGGGGGGGCAGATACCGCCGCTGCG         3321           Sbjet         2579         TCGTCTTCTCCCCAAATGGAGCCACAACCCTCTCTGCCCGTAGGGGCCAGATACCGCCGCTGCC         2638           Query         3122         GTGACATCATCAACGGCTTGCCCCGTCTCTGCCCGGAGGGGCAGATACTGCTCGGCC         2638           Sbjet         2639         GTGACATCATCAACGGCTTGCCCTGTTTCCGCCCGGAGGGGCAGATACTGCTCGGCC         2698           Query         3382         CAGCCGACGGAATGGTCTCCAAGGGTGGAGGTTGCTGGGCGCCCATCACGGGGTACGCCC         2758           Query         3442         AGCAGACGAAGGGCCTCCTAAGGGTGTAATACCAACGCCTCATCACGGCGTACGCCC         2758           Query         3502         AGCAGACAAGGGGCTCCTCTAAGGTGCATAATCACCAGCCTGACTGCCGGAACAAAACC         2818           Query         3502         AGCTGAGAGGAGGAGGTCCAGATTGTCTACCACGGGGCCGAACGAA	_	2400	CGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC-GGAGGCCATTACG	
Ouery         3202         CCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCAG         25 h           Sbjet         2519         CTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGTGGCTGTGAACAGG         25 78           Query         3262         TCGTCTTCTCCCGAATGGAGCCAAAGGTCTATCACGTGGGGGGCAGATACCGCCGCGTGCG         3221           Sbjet         2579         TCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCG         26 38           Query         3322         GTGACATCATCAACGGCTTGCCCGTTCTCGCCGTAGGGGCCAGGAGATACTGCTCTGGGC         26 98           Sbjet         26 39         GTGACATCATCAACGGCTTGCCCGTTCTCGCCCGTAGGGGCCCGAGAGATACTGCTCTGGGC         26 98           Query         382         CAGCCGACGAATGGATCTCCCAAGGGGTGGAGGTTGCTGGCGCCCCATCACGGCGTTACGCCC         27 58           Query         3442         AGCAGACGAGAGGCCTCCTAAGGGTGTATAATCACCACCTACTCACGGCGACAAAAACC         28 18           Query         3502         AGCGGACGAGGGGCCTCCTAAGGGTGCTAAATCACCACGCTAACCTGCCGGGACAAAAACC         28 18           Query         3502         AAGTGGAGGGTGAGGTCCAGAGTGGTCAACTGTGCCCAAACCTTCCTGGCAAACGTCAC         28 18           Query         3562         TCAATGGGGTAAGGTCCAGATTGTTCAACTGGTCACAACCTTCCTGGCAAACCTTCCTGGCAACGTCA         28 78           Query         3622         AGGGTCCTGTCATCCAGATTGTTCACACGGGCCGGAACGAGGACCATCACCCA         29 38           Query         3622	_			
Sbjet 2519 CTCCTCTTCGGGACTGGGCGCACAAGGGCTTGGCGAGATCTGGCGGTGAGAGCCA 2578 Query 3262 TCGTCTTCTCCCGAATGGAGACCAAGGCTTGGCGGGGGGCAGATACCGCGCGTGCG 3321 Sbjet 2579 TCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCG 2638 Query 3322 GTGACATCATCAACGGGCTTGCCCGTCTCTGCCCGTACGGGGGCCAGATACCGCCGCGTGCG 2638 Sbjet 2639 GTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGAATACTGCTTGGGC 3381 Sbjet 2639 GTGACATCATCAACGGCTTGCCCGTCTTTCCGCCGCGAGGGGCCAGGAGAATACTGCTTGGGC 2698 Query 3382 CAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGGCCCATCACGGGGTACACCCC 3441 Sbjet 2699 CAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGGCCCATCACGGGGTACACCCC 2758 Query 3442 AGCACGAGGGATGGCTCCTAAGGGGTGAGGTTGCTGGCCCCATCACGGGGTACACCC 2758 Sbjet 2759 AGCAGACGAGGGCTCCTAAGGGGTTGATAATCACCAGCCTGACTGGCCCGGACAAAAACC 2818 Query 3502 AAGTGGAGGCTCCTAAGGGTGAATACACCAGCCTTGACTGGCCCGGACAAAAAACC 2818 Sbjet 2819 AAGTGGAGGTCCCAAGGGTTAAATCACCAACCTTCACTGGCAACAGACC 2878 Query 3522 TCAATGGGGTAAGGTCCAGATTGTACACTACCCAAACCTTCCTGGCAACCGTC 2878 Query 3522 TCAATGGGGTAGGTCCAGATTGTACACACAGCCCTAAACCTTCCTGGCAACCTGC 2878 Query 3622 TCAATGGGGTAGCTCGTACACAACCTCCCCAAACCTTCCTGGCAACCTGC 2878 Query 3622 AGGGTCCTGTCAACCAAATGGTCTACCACAGGACCAACACCTTCCTGGCAACCTGC 2938 Query 3622 AGGGTCCTGTCAACCAAATTGTCTACCACAGGGGCCCGGAACGAAC	_			
Query         3262         TCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGGTGGC         3321           Sbjet         2579         TCGTCTTCTCCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGTGGC         2638           Query         3322         GTGACATCATCAACGGCTTGCCCGTTCTCTCCCCATAGGGGCCAGGAGATACTGCTTGGGC         2698           Sbjet         2639         GTGACATCATCAACGGCTTGCCCGTTCTCCCCGCAGGGGCCAGGAGATACTGCTTGGGC         2698           Query         3382         CAGCCGACGGAATGGTCTCCAAGGGGTTGCTGCCCCCACAGGGGCCCATCACCGGCGTACGCCC         2758           Sbjet         2699         CAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACCGGCGTACGCCC         2758           Query         3442         AGCAGACGAAGGGCTCCCTAAGGGTGTAATAATCACCACCTGACTGGCCGGGACAAAAACC         2818           Query         3502         AAGTGGAGGGGGGGGGGGGTGCAACACCTTCACCGGCCCAAACCTTCCTGGCAACCGCA         2818           Query         3502         AAGTGGAGGGTAGGTCCAGATGTGTCAACTGCTACCCAAACCTTCCTGGCAACCGCA         2878           Query         3562         TCAATGGGGTAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACCGCA         2878           Query         3622         AGGGTCCTGTCATCCAGATGTCTACCACAGGGGCCGGAACGAGGACCATCGCATCCCCA         2938           Query         3622         AGGGTCCTGTCATCCAGATGTATACCAATGTGGCCTGGCCCGGCCCCCCTTTACCTGGTCCCCGTCCTCTGGACCTTTACCTGGTCCCCGCTCTTTACCTGGTCACCCTGGACCTTTACCTGGGCCTGTCTTCCTGGACCTTTACCTGGTCCCGCTCTTTACCTGGTCCCGGCCGG	_			
Sbjet 2579 TCGTCTTCTCCAAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGTGGCG 2638 Query 3322 GTGACATCAACAGCTTGCCCGTTCTCCCCCGTAGGGGCCAGGAATACTGCTTGGGC 3381 Sbjet 2639 GTGACATCAACAGCGCTTGCCTGTTTCCCCCCGAAGGGGCCAGGAGATACTGCTTGGGC 2698 Query 3382 CAGCCGACGGAATGGTTCTCCAAGGGGTGGAGGTTGCTGGCCCGAAGGGCCCGAACATACTGCTCGGGC 2698 Query 342 CAGCCGAATGGATCTCCAAAGGGTGAAGGTTGCTGGGCCCATCACGGCGTACGCC 2758 Query 3442 AGCAGACAGAGGCCTCCTAGGGTGATAATCACCAGCCTGACTGCCGGGACAAAAACC 2818 Query 3502 AAGTGGAGCTCCTAGGGTGATAATCACCAGCCTAACTGGCCGGGACAAAAACC 2818 Query 3502 AAGTGGAGGTCCAGATGGTGAACTGCTCGCTGACTGGCCGGGACAAAAACC 2818 Sbjet 2819 AAGTGGAGGTGAGGTCCAGATGGTGAACTGCTCACCAAACCTTCCTGGCAACGTGCA 3561 Sbjet 2819 AAGTGGAGGTAGGATGCTGAACTGGTCAACTGCCCAAACCTTCCTGGCAACGTGCA 2878 Query 3562 TCAATGGGGTGAGGTCCAGATTGTCAACTGCTGCCCAAAACCTTCCTGGCAACGTGCA 2878 Query 3622 TCAATGGGGTGAGGTCCAGATTGTCAACACGGGGCCGGAACAGACGACCATCACCCA 3621 Sbjet 2879 TCAATGGGGTGTGCTGACCACGGGGCCGGAACGAGACACCACCCCC 2938 Query 3622 AGGGTCCTGTACCACAGGGGCCGGAACGAGACACACCACCCCC 2938 Query 3622 AGGGTCCTGTACCACAGATGTATACCAACGGGCCGGAACCATCACCCCA 3681 Sbjet 2939 AGGGTCCTGTATCCAGATGTATACCAATGGGCCGGAACCATCACCCCA 2938 Query 3682 CTCAAGGTTCTCCAGATGTATACCAATGTGCACAAGACCTTTGTGGGCTGGCCCGCTC 2998 Query 3682 CTCAAGGTTCCCGCTCATTGACACCCTGTACCTGGGCCTCCGGACCTTTACCTGGTCA 3058 Query 3742 CGAGGCACGCCGATGTCATCCAGTGTACACCCTGTACCTGGGCCTCCTGGACCTTTTACTTGGTCA 3058 Query 3742 CGAGGCACGCCGATGTCATTCCCGTGCCCGGCCGGCTCCTTGGGCCTGCCCCCTCTTTACCTGGTCA 3058 Query 3742 CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGAACCATCCCTTTTACTTGGTCA 3058 Query 3742 CGAGGCACGCCGATGTCATTCCCGTGCGCCGGGCGGGGTGATAGCAGGGGCAACCTTTTACTTGGTCA 3058 Query 3682 GCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCTGGGGCTGGTGTATGCGGCCGGC	_			
Query         3322         GTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGGC         2698           Sbjet         2639         GTGACATCATCAACGGCTTGCCTGTTTCCGCCCCGCAGGGGCCGGAGATACTGCTCGGGC         2698           Query         3382         CAGCCGACGGAATGGTTCCCAAAGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCC         3441           Sbjet         2699         CAGCCGATGGAATGGTTCCCAAAGGGTGGAAGTTGCTGGCCGCCCATCACGGCGTACGCCC         2758           Query         3442         AGCAGACGAGAGGCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAACC         2818           Query         3502         AAGTGGAGGGTCACCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAACC         2818           Query         3502         AAGTGGAGGGTGAGGTCCAGATCGTTCAACTGCTACCCAAACCTTCCTGGCAACGTGCA         2878           Query         3562         TCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA         2878           Query         3622         AAGGGTCTGCTATCCAGATTGTTCACCACGGGGCCGGAACGAGGACCATCGCATCACCCA         2938           Query         3622         AGGGTCCTGCATCCAGATGTATACCAATGTGGACCAGACCATGGGCTCACCCCA         2938           Query         3622         AGGGTCCTGCATCCAGATGTATACCAATGTGAGCCAGAGCACTTGTGGGCTGGCCCGCCC	_			
Sbjet 2639 GTGACATCATCAACGGCTTGCCTGTTTCCGCCCGCAGGGGCCGGAGATACTGCTCGGCC 2698 Query 3382 CAGCCGACGGATGGCTGTCCTGTTCCGCCCGCAGGGGCCGGAGATACTGCTCGGCC 3441 Sbjet 2699 CAGCCGATGGAATGGTCTCCAAGGGGTGAGGTTGCTGGCGCCCATCACGGCGTACGCCC 2758 Query 3442 AGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCGGGACAAAAACC 3501 Sbjet 2759 AGCAGACAAGGGCTCCTAGGGTGCAATCACCAGCCTGACTGCCGGGACAAAAACC 2818 Query 3502 AAGTGGAGGGTCAGATCGTGCAACTGCCCAAACCTTCCTGGCAACGTGCA 2878 Sbjet 2819 AAGTGGAGGGTGAGGTCCAGATCGTGCAACTGCCCAAACCTTCCTGGCAACGTGCA 2878 Query 3562 TCAATGGGGTAGGTCCAGATTGTGTCAACTGCCCAAACCTTCCTGGCAACGTGCA 2878 Query 3622 AGGGTCCTGGACTGTCTACCACGGGGCCGGACAAGAACC 2938 Query 3622 AGGGTCCTGCAACTGTCTACCACGGGGCCGGACCATCACCCA 2938 Sbjet 2939 AGGGTCCTGCAACTGTCTACCACGGGGCCGGACCATCACCCA 2938 Query 3682 CTCAAGGGTTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCTGACCC 2998 Query 3682 CTCAAGGGTCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCTGACCC 2998 Query 3682 CTCAAGGGTCCTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCTC 2998 Query 3682 CTCAAGGTTCCACCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCTC 2998 Query 3742 CGAGGCACGCCGATGTCATTCCAGCTGCGCTCCTCGGACCTTTACCTGGTCA 3058 Query 3742 CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCCGGTCCTCGGACCTTTACCTGGTCA 3058 Query 3742 CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGCGGGAGGTAGCCTGCTTT 3801 Sbjet 3059 CGCAAGGTAGCCGCTCATTGAAACCCTTGCGGCCTCCTGGACCTTTACCTGGTCA 3058 Query 3802 CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTGGGGGTTGACACGGGGACCTGCTTT 3118 Query 3802 CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGTCGCTGTTTGTGCCCCGCGG 3178 Query 3862 GACACGCCGATGTCATTCCAGGCCCGGGGGGGGGGTCGCTGTTTGTGGCCCGCGG 3178 Query 3862 ACACGCCGGAGGCAATTTCATCTAGAACCCTGCGGGGGTCCGCTGTTTTGTGGCCCGCGG 3178 Query 3862 ACACGCCGTGGGCCTATTCAGGGCCGCGGGGGGGGGGCCGGTGTTTGTGGCCCCGCGG 3178 Query 3862 ACACGCCGGGGCGCATTTCCTAGGGCCGCGGGGGGGGGG	_			
Query3382CAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCC3441Sbjet2699CAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCC2758Query3442AGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACC3501Sbjet2759AGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAACC2818Query3502AAGTGGAGGTGAGGTCCAGATCGTTCAACTGCTCACCAAACCTTCCTGGCAACGTGCA3561Sbjet2819AAGTGGAGGTGAGGTCCAGATCGTTCAACTGCTCCCAAACCTTCCTGGCAACGTGCA2878Query3562TCAATGGGGTATGCTGACACTGCTCACCACGGGGCCGAACGAGCACCACCCCA3621Sbjet2879TCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA3621Sbjet2879TCAATGGGGTTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA2938Query3622AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTC2938Query3622AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTC2998Query3682CTCAAGGGTTCATCCAGATGTATACCAATGTAGACCCTGTCAGGCTCCTCGGACCTTTACCTGGTCA3741Sbjet2999CGCAAGGTAGCCTCATTGACACCCTGTACTTGCGGCTCCTCGGACCTTTACCTGGTCA3058Query3742CGAGGCACGCCGATGTCATTCCGGTCGCCCGGCGGAGGTGATAGCAGGGGTAGCCTGCTT3801Sbjet3059CGGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGGG	_			
Sbjet 2699 CAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCCATCACGGGGTACGCCC 2758  Query 3442 AGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGACAAAAACC 3501  Sbjet 2759 AGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTGACTGGCCGGGACAAAAACC 2818  Query 3502 AAGTGGAGGGTCCAGATCGTGTCAACTGCTCACCAAACCTTCCTGGCAACGTGCA 2878  Sbjet 2819 AAGTGGAGGGTAGGTCCAGATCGTGTCAACTGCTCACCAAACCTTCCTGGCAACGTGCA 2878  Query 3562 TCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAAC	_			
Query3442AGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACC3501Sbjet2759AGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAACC2818Query3502AAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCA3561Sbjet2819AAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTCCCAAACCTTCCTGGCAACGTGCA2878Query3562TCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA3621Sbjet2879TCAATGGGGTGTGTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA2938Query3622AGGGTCCTGTCATCCAGATGTATACCAACGGGGCCGGAACGAGGACCATCGCTCCCCCCA2938Sbjet2939AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTC3681Sbjet2939AGGGTCCTGTCATCCAGATGTATACCAATGTGAACCAAGACCTTGTGGGCTGGCCCGCTC2998Query3682CTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCA3741Sbjet2999CGCAAGGTAGCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCA3058Query3742CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGAGGTGATAGCAGGGGTAGCCTGCTTT3801Sbjet3059CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGGTGATAGCAGGGGTAGCCTGCTTT3118Query3802CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTGTTGTGCCCCCGGG3178Query3862GACACGCCGTGGGCCTATTCCACTTGAAAGGCTCCTCGGGGGGTGTTGTGCCCCCGGGG3178Query3862GACACGCCGTGGGCCTATTCCACTTGAAAGGCTCCTCGGGGGGTGGCTGTTGTGCCCCCGGGGGTGTGCACCCGTGGGGTTGTGCCCCCGGGGGGTGTGCACCCGTGGGGGTTGCACCCGTGGGGCTAAGGCGGGGCAAGCTTTCCTACTTGAAAGGCTCCTCGGGGGGGTGGCTAAGGCGGTGGCTAAGGCGGGGGGGG	_			-
Sbjet 2759 AGCAGACAGGGGCCTCTAGGGTGCATAATCACCAGCCTAACTGGCCGGGACAAAAAAC Query 3502 AAGTGGAGGGTGAGGTCCAGATCGTCACACTGCCCAAACCTTCCTGGCAACGTGCA 3561 Sbjet 2819 AAGTGGAGGGTGAGGTCCAGATTGTCTACACTGCTGCCCAAACCTTCCTGGCAACGTGCA 2878 Query 3562 TCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA 3621 Sbjet 2879 TCAATGGGGTTGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA 2938 Query 3622 AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAGTGGCCCGCTC 3681 Sbjet 2939 AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCATTGTGGGCTGGCCCGCTC 2998 Query 3682 CTCAAGGTTCCCGCTCATTCACACATGTGACACCTGCGTCCTCGGACCTTTACCTGGTCA 3741 Sbjet 2999 CGCAAGGTACCCGCTCATTGACACCCTGCACCTGCGCTCCTGGACCTTTACCTGGTCA 3058 Query 3742 CGAGGCACGCCGATGTCATCCAGATGTATACCAATGTAGACCACTTGCGGCTGCCCGCTC 3881 Sbjet 3059 CGCAAGGTACCCGTCATTCACACCTGCGCCCGCGCGCTCCTGGACCTTTACCTGGTCA 3058 Query 3802 CGCCCGGCCCATTTCACTGCACCCTGCACCTGGACCTTTACCTGGTCA 3118 Query 3802 CGCCCGGCCCATTTCACTGAAAGGCTCCTCGGGGGTGATAGCAGGGGTAGCCTGCTTT 3118 Query 3802 CGCCCGGCCCATTTCATCTGAAAGGCTCCTCGGGGGGTCCGCTGTTTGTGCCCCGCGG 3178 Query 3802 CGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG 318 Query 3802 CGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTTGTGCCCCGCGG 318 Query 3802 ACCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTTGTGCCCCGCGG 318 Query 3802 ACCCCGGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTTGTGCCCCGCGG 318 Query 3802 ACCCCGGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTTGTGCCCCGCGG 3228 Query 3802 ACCCCGGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTTGTGCCCCGCGG 3228 Query 3802 ACCCCGGGCCCATTTCCTACTTGAAAGGCTCCCCGGGGGGTCCGCTGTTTGTGCCCCGCGG 3228 Query 3802 ACCTTATCCAGGGCCGGGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3228 Query 3802 ACCTTATCCTGGGGGCCAACCATGAGAAACCATGGAGTGGCTAAAGCGGTGG 3228	_			
Query3502AAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCA3561Sbjet2819AAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGCA2878Query3562TCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA3621Sbjet2879TCAATGGGGTGTGTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA2938Query3622AGGGTCCTGTCATCCAGATGTATACCACGGGGCCGGAACGAGGACCATCGCGTCACCCA2938Sbjet2939AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCGGCC	_			
Sbjet 2819 AAGTGGAGGTCAGATTGTCAACTGCTGCCCAAACCTTCCTGGCAACGTGCA 2878  Query 3562 TCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGCACCACCCA 3621  Sbjet 2879 TCAATGGGGTGCTGCACTGCACCACGGGGCCGGAACGAGGACCATCGCCACCCA 2938  Query 3622 AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAGAGACCATCGCGTCACCCA 2938  Query 3622 AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAGAGACCATCGCGTCACCCA 2938  Query 3682 CTCAAGGTTCCCGCTCATTGACACCCTGTAGCCAGAGACCTTGTGGGCCGGCC	_			
Query3562TCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCA IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	_			
Sbjet 2879 TCAATGGGGTGCTGGACTGTCACCACGGGGCCGGAACGAGGACCATCGCGTCACCCA 2938  Query 3622 AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTC 3681  Sbjet 2939 AGGGTCCTGTCATCCAGATGTATACCAATGTGACCAAGACCTTGTGGGCTGGCCCGCTC 2998  Query 3682 CTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCA 3741  Sbjet 2999 CGCAAGGTAGCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCA 3058  Query 3742 CGAGGCACGCCGATGTCATCCCGTGCACTTGCGGCTCCTCGGACCTTTACCTGGTCA 3058  Sbjet 3059 CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGTGATAGCAGGGGTAGCCTGCTTT 3801  Sbjet 3059 CGAGGCACGCCGATGTCATTCCCGTGCCCGGGGGGTGATAGCAGGGGGAGCCTGCTTT 3118  Query 3802 CGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG 3861  Sbjet 3119 CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTTGTGCCCCGCGG 3178  Query 3862 GACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3921  Sbjet 3179 GGCACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3921  Sbjet 3179 GGCACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3238  Query 3922 ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACCGGACAACT 3981	_			
Query       3622       AGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCCGGCC	~ 1			
Sbjct 2939 AGGGTCCTGTCATCCAGATGTATACCAATGTAGACCAAGACCTTGTGGGCTGGCCCGCTC 2998  Query 3682 CTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCA 3741  Sbjct 2999 CGCAAGGTAGCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCA 3058  Query 3742 CGAGGCACGCCGATGTCATTCCCGTGCGCCGGGCGGGGTGATAGCAGGGGTAGCCTGCTTT 3801  Sbjct 3059 CGAGGCACGCCGATGTCATTCCCGTGCGCCGGGGGGGTGATAGCAGGGGTAGCCTGCTTT 3118  Query 3802 CGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG 3861  Sbjct 3119 CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG 3178  Query 3862 GACACGCCGTGGGCCTATTCAGGGCCGCGGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3921  Sbjct 3179 GGCACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3238  Query 3922 ACTTTATCCCTGTGGAGAACCTAGGGACACCCGTGGAGTGGCTAAGGCGGTGG 3238	2			_,,,
Query       3682       CTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCA       3741         Sbjct       2999       CGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTCA       3058         Query       3742       CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTT       3801         Sbjct       3059       CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGGGTGATAGCAGGGGCAGCCTGCTGT       3118         Query       3802       CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG       3861         Sbjct       3119       CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG       3178         Query       3862       GACACGCCGTGGGCCTATTCAGTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG       3178         Sbjct       3179       GGCACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCCGTGG       3921         Sbjct       3179       GGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTGG       3238         Query       3922       ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGGTTCACCGGACAACT       3981	_			
Sbjet 2999 CGCAAGGTAGCCGCTCATTGACACCCTGCACTTGCGGCTCCTCGGACCTTTACCTGGTCA 3058  Query 3742 CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTT 3801  Sbjet 3059 CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGGGTGATAGCAGGGGTAGCCTGCTTT 3118  Query 3802 CGCCCGGCCCGATGTCATTCCCGTGCGCCGGCGGGGGGTCCGCTGTTGTGCCCCGCGG 3861  Sbjet 3119 CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGGTCCGCTGTTGTGCCCCGCGG 3178  Query 3862 GACACGCCGTGGCCTATTCCTACTTGAAAGGCTCCTCGGGGGGGTCCGCTGTTGTGCCCCGCGG 3921  Sbjet 3179 GGCACGCCGTGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3921  Sbjet 3179 GGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3238  Query 3922 ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACT 3981	_			
Query       3742       CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTT       3801         Sbjct       3059       CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGGGGGTGATAGCAGGGGCAGCCTGCTGT       3118         Query       3802       CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGGGGTCCGCTGTTGT	_			-
Sbjct 3059 CGAGGCACGCCGATGTCATTCCCGTGCGCCGGGGGGTGATAGCAGGGGCAGCCTGCTGT 3118  Query 3802 CGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG 3861  Sbjct 3119 CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG 3178  Query 3862 GACACGCCGTGGGCCCTATTCAGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG 3178  Sbjct 3179 GGCACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3921  Sbjct 3179 GGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3238  Query 3922 ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACT 3981	_	3742	CGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTT	3801
Query       3802       CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG       3861         Sbjct       3119       CGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG       3178         Query       3862       GACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG       3921         Sbjct       3179       GGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG       3238         Query       3922       ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACT       3981	_	3059		3118
Sbjet 3119 CGCCCGGCCCATTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG 3178  Query 3862 GACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3921  Sbjet 3179 GGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3238  Query 3922 ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACT 3981	_		CGCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGG	
Query 3862 GACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3921 Sbjct 3179 GGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGG 3238  Query 3922 ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACT 3981	_	3119		
Sbjct 3179 GGCACGCCGTGGGCATATTTAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAGGCGGTGG 3238  Query 3922 ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACT 3981	_	3862		3921
Query 3922 ACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACT 3981	_	3179		3238
	Query	3922		3981
	Sbjct	3239		3298

Query	3982	CCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGCA	4041
Sbjct	3299	ĊĊŢĊŢĊĊĂĊĊĂĠŢĂĠŢĠĊĊĊĂĠĂĠĊŢŢĊĊĂĠĠŢĠĠĊŢĊĂĊĊŢĊĊĂŢĠĊŢĊĊĊĂĊĀĠĠĊĂ	3358
Query	4042	GCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTGC	4101
Sbjct	3359	ĠĊĠĠĊĀĀĀĀĠĊĀĊĊĀĀĠĠŤĊĊĊĠĠĊŤĠĊĀŤĀŦĠĊĀĠĊŤĊĀĠĠĠĊŤĀŦĀĀĠĠŤĠĊŤĀĠŤĀĊ	3418
Query	4102	TCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGG	4161
Sbjct	3419	TCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTCCAAGGCTCATGGGA	3478
Query	4162	TTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACT	4221
Sbjct	3479	tcgatcctaacatcaggaccggggtgagaacaattaccactggcagccccatcacgtact	3538
Query	4222	CCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAA	4281
Sbjct	3539	ccacctacgcaagttccttgccgacgcggtgctcgggggggg	3598
Query	4282	TTTGTGACGAGTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTG	4341
Sbjct	3599	tttgtgacgagtgccactccacggatgccacatccatcttgggcatcggcactgtccttg	3658
Query	4342	ACCAAGCAGAGACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCT	4401
Sbjct	3659	accaagcagagactgcggggggggagactggttgtgctcgccaccgccacccctccgggct	3718
Query	4402	CCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCC	4461
Sbjct	3719	ccgtcactgtgccccatcccaacatcgaggaggttgctctgtccaccaccggagagatcc	3778
Query	4462	CCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCT	4521
Sbjct	3779	ĊŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢŢ	3838
Query	4522	GCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATG	4581
Sbjct	3839	grcattcaaagaagtgcgacgaactcgccgcaaagctggtcgcattggcatcaatg	3898
Query	4582	CCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTCG	4641
Sbjct	3899	ccgtggctactaccgcgctttgacgtgtccgtcatcccgaccagcggcgatgttgtcg	3958
Query	4642	TCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACT	4701
Sbjct	3959	ŤĊĠŤĠĠĊĸĂĊĊĠĂŤĠĊĊĊŤĊĂŤĠĂĊĊĠĠĊŤĸŤĂĊĊĠĠĊĠĂĊŤŤĊĠĂĊŤĊĠĠŤĠĂŤĂĠĂĊŤ	4018
Query	4702	GCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAGA	4761
Sbjct	4019	ĠĊŔĸŢŔĊĠŤĠŤĠŤĊŔĊĊĊŔĠŔĊŔĠŤĊĠŔŤŤŤĊŔĠĊĊŤŤĠŔĊĊĊŤŔĊĊŤŤĊŔĊĊŔŤŤĠŔĠŔ	4078
Query	4762	CAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGG	4821
Sbjct	4079	ĊĂĂTĊĂĊĠĊŤĊĊĊĊĠĠĠĂŤĠĊŤĠŤĊŤĊĊĊĠĊĀĊŤĊĂĂĊĠŤĊĠĠĠĠĊĀĠĠĀĊŤĠĠĊĀĠĠĠ	4138
Query	4822	GGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGGCCCCCTCCGGCATGTTCGACT	4881
Sbjct	4139	ĠĠàAĠĊĊĀĠĠĊĀŤĊŤĀĊĀĠĀŤŤŤĠŤĠĠĊĀĊĊĠĠĠĠĀĠĊĠĊĊĊŤĊĊĠĠĊĀŤĠŤŤĊĠĀĊŤ	4198
Query	4882	CGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4941
Sbjct	4199	ĊĠŦĊĊĠŦĊĊŦĊŦĠŦĠĂĠŦĠĊŦĂŦĠĂĊĠĊAĠĠĊŦĠŦĠĊŦĠĠĠŦĂŦĠĂĠĊŦĊĂĊĠĊĊĠĊĊĠ	4258
Query	4942	AGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACC	5001
Sbjct	4259	agactacagttaggctacgagcgtacatgaacaccccggggcttcccgtgtgccaggacc	4318
Query	5002	ATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5061
Sbjct	4319	atcttgaattttgggagggcgtctttacaggcctcactca	4378
Query	5062	CCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGT	5121
Sbjct	4379	CCCAGACAAAGCAGAGTGGGGAGAACCTTCCTTACCTGGTAGCGTACCAAGCCACCGTGT	4438

betype         5122         GEOCTAGGSCETCARGCCCTCCCCCATCGTGGGACCAGATGTGGAACTGTTTGATTCGCC         4498           Spiget         4439         GEGCTAGGSCTCARGCCCTCCCCCCATCGTGGGACCAGATGTGGAACTGTTTGATTCGCC         4498           Ouery         5182         THARACCACCCTCCATCGTGGGACCAGATGTGGGACTGTGCGAGTGTTCAGAATG         5241           Spiget         4199         TCALGCCACCCTCATGGGCCACCCCCATTGTTGAACTGGGCGGTGTTCAGAATG         5241           Spiget         4559         AGGTGGCACCCCCATGGGCCACCCCACTCATTGTGAACTGAACTGCAGTGTGGCGCGCGTTTT         361           Spiget         4519         AGGTGGCACGAGCCTGGGTGCTCTTGGGGCGCTCCTGGCTGCTTGGCCGCGCGTTTT         361           Spiget         4519         AGGTGGCACGAGACCTGGGTGCTCTTGGCGGCGCTCCTGGCTCCTTGGCCGCGCTTTT         361           Spiget         4519         AGGTGGCACGAGACCTGGGTGCTCTTGGCGGCGCTCCTGGCTCCTTGGCCGCGCGATTT         361           Spiget         4520         ACCTGGCACACAGAGCTGGTGATAGTGGGCACAGATGTGTGTG				
Spict         4499         GEOCTASSGCTCARGECCCTCCCCCATCGTGTGCARAGTGTTGAAGTTTGATTGGC         4498           Ouery         5182         TTARACCCACCCTCCATGGGCGAACCCCCTGTTATACAGGATTGAGGAGTGGGGGGTGTTCAGAAGT         5458           Spict         4499         TCAACCCACCCCCCCACCGGCACACCCCATTGCCTATACAGGATTGACGATGGCGGCGACTGGG         550           Spict         4595         AAATCACCCTGACGACCCAATTACCAAATACATCATTGACATGCATTGGCGGCGACCTGG         501           Spict         4599         AAATCACCCTGACGACCCAGGTGCTCGTTTGGCGGGGTGCTTTGGCCGGCGACTTT         5361           Spict         4619         AGGTGCTCACCAGCACCTGGGTGCTTGTGGCGGGGTGCTTTGGCCGGGATT         4678           Spict         4679         AGCTGCACACAGCTGGGTGGTCTGTTGGCGGGGTGCTTTGGCCGGGATT         478           Spict         4679         CCCTGCCAACAGGCTGGCTGGTCTGTTGGCGGGGTGCTTTGGCCGGGAAGCCCCCAA         472           Spict         4679         CCCTGCCAACAGGCTGGCTGGTCTTCTATGCCGGGATTGGATGGA	Query	5122		5181
Sejet         4499         TCAMAGCCACCCTCCATGGGCCAACACCCTGCTTATAGAACTGGGCCGCGTTTAGAAGACTGGGCCGGCTGGGGTATT         5301           Ouery         5242         AAGTCACCCTGACGCACCCACTGACGCAAATACATCATGACATGACATGGGCGCGGTCTGGGTGGG	Sbjct	4439		4498
Sbjet         4499         TCAAGGCCACCCTCCATGGCCCAACACCCCCTGTTATACAGACTGCCGCCTGTTCAGAATG         4558           Query         5242         AAGTCACCCTGACGCACCCAATCACCAAATACATCATGACTGCTGGCCGCCGCCGCTGGG         361           Sbjet         4559         AAATCACCCTGACGCACCCCAATCACCAAATACATCATGACTGCTGGCCGCTGTTT         361           Sbjet         4619         AGGTCATCACGACACCACTGGGGGGCTTGGGGGGGCTGGGTTT         367           Query         5362         GCCTGTCAACAGGCCTGGGTGCTTATGGGGGGGGTACTGGGTGGTTGGT	Query	5182		5241
Sbjet         4559         AARATCACCTGRACCACCAGGICACCAGAATACATCATGACATGGCTGGGCCGACTTTTGGCCCGACTTGGCTGGC	Sbjct	4499		4558
Query         5302         AGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGGGTCCTTGGCCGCGTATT         5361           Sbjet         4619         AGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGCGTCTTTGGCCGCGTATT         4678           Query         5362         GCCTGTCACACGAGCACCTGGGTGCTATAGTGGGCAGGATCGTCTTGTCCCGGAAGCCGCAA         4738           Sbjet         4679         GCCTGTCAACAGGCTGCTGGTCATAGTGGCCAGGATCGTCTTGTCCCGGAAGCCGCAA         4738           Query         5422         TATATACCTGACAGGCAAGGTTCCTCACC-AGGAGTTCGATCAGAGAGAGAGAGAGAGAGAGAGAGAGAG	Query	5242		5301
Sbjet         4615         AGGTCCACCAGGCACCTGGTGGTCTTTGGCGGGTTTTTGGCCGCTATTT         4678           Query         5362         GCCTGTCAACAGGCTGCGTGGTCATACTGGGCAGGATCTTGTCCCGGAAGCCGCCAA         4738           Sbjet         4679         GCCTGTCAACAGGCTGCGTGGTCATACTGGGCAGGATCTTCTCCCGGAAGCCGCCAA         4738           Query         5422         TATACCTCAACAGGGAGGTTCCTTACCAAGGGGTCTTTGTGCAGAAGAGAGTGCTCTAG         4797           Query         5481         CACTTACCGTACATCGACCAAGGGATGATCCTGCTGAGCAGTTCAAGCAGAAGAGGCCCC         5540           Sbjet         4798         CACTTACCGTACATCGACCAAGGGATGATCCTGCTGCGCAGCTGTTCAAGCAGAAGAGCCCCC         4957           Query         5541         GGCCTCCTGCAGACCAGGCACCATGCAGAGGATTATCACCCCTGCTGTCCAAGCAACA         560           Sbjet         4978         CACTTACCGTACACCAGCCTCTCAGGCCAAGCACATTCGAAGTTCATCACAGCAACACACAC	_	4559	AAATCACCCTGACGCACCCAGTCACCAAATACATCATGACATGCATG	4618
Query         5362         CCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAA         4738           Sbjet         4679         GCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTTTGTCCCGGAAGCCGGCAA         4738           Query         5422         TATACCTGACAGGGAGGTCTCTACC-AGGAGTTCGATGAGAGTGGAAGAGTCCTCAG         4797           Ouery         5481         CACTTACCGTACATCGAGCAGGAGTTCCATCCAGCAGTTCAGTAGAGAGAG		5302		
Sbjet         4679         GCCTGTGTGAACAGGGTGCTGTGTTGTGCGGGAAGCCGGCAA         4738           Ouery         5422         TTATACCTGAACAGGGAGTTCTTTACC-AGGAGTTGGATGGATGGAAGAGTGCTCTCAG         5480           Sbjet         4739         TCATACCTGACAGGGAAGTCCTTTACCGAG-AGTTCGATGGATGGAAGAGTGCTCTCAG         4797           Query         5481         CACTTACCGTACATCGAGCAAGGGATGATGCTCGCGAGAGTTCAAGCAGAGAGGCCCTC         4857           Sbjet         4798         CACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGAGTTCAAGCAGAGGACCAC         4857           Query         5541         GCCCTCCTGCAGACCCCGTCCCGCAGTGCAGAGGTTATACACCCTGCTGTCCAGACCAAC         4917           Query         5601         TGGCAGAAACTCCAAGGTCTTTTGGGCCAAACACATGTGGAATTTCATCAGTGGGATACAA         4960           Sbjet         4918         TGGCAGAAACTCGAGGTCTTTTGGGCGAAACACATGTGGAATTTCATCAGTGGGATACAA         4977           Query         5661         TACTTGGCGGGCTGTCAACCCTCCCTGGTAACCCCCCATTACTACTATGATGGGATACAA         4977           Query         5611         TACTTGGCGGGCTTGCAACCCTCCCTGGTAACCCCCCATTACTACTATTCATTGATGGGTTTT         5037           Query         5721         ACAGCTGCCTCACCAGCCCACTAACCATGGCCAAACCCTCCTCTTCAACATATTGGG         5190           Sbjet         5931         ACAGCTGCCCCCACTACCAGCCCCCATTACCACTTACCCTCTCTTCAACATATTGGG         519           Query         5841         TAGCTGGCCCCCCATCGGCGGGGGGAGCCTTGTGAC	_	4619	AGGTCGTCACGAGCACCTGGGTGCTCGTTGGCCGCGTATT	
Query         5422         TTATACCTGACAGGAGGTTCTCTACC-AGGAGTTGGATGGATGGATGGATGGATGGATGGATGGAT	_			_
Sbjet         4739         Infilial Infilia	_		GCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTCCGGGAAGCCGGCAA	
Ouery         5481         CACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCTC         4857           Sbjct         4798         CACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCAAGCAGAAGGCCTC         4857           Query         5541         GGCCTCCTGCACACCGGCTCCGCCATGCAGAGAGGTTATCACCCCTGCTGTCCAGACCAAC         5600           Sbjct         4858         GGCCTCCTGCAGACCGGCTCCGTCAGGCAGAGGTATTCATCCACCTGCTGTCCAGACCAAC         4917           Query         5601         TGGCAGAAACTGGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACAA         4967           Sbjct         4918         TGGCAGAAACTCGAGGCTTCTTGGGCGAAGCATTGTGGAATTTCATCAGTGGGATACAA         4977           Query         5661         TACTTGGCGGGCCTGTCAACCCTCCTGGTAACCCCGCCATTGCTTCATCAGTGGGTATCAA         4978           Sbjct         4978         TACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTT         5720           Sbjct         5038         ACAGCTGCCTGCACACCACCACACACTACCACTGCCCACTTCATTCA	_	-		
Sbjet 4798 CACTTACCGTACATCGAGGATGATGCTCGCCGAGCAGTTCAAGCAAAGCCTC 4857 Query 5541 GGCCTCCTGCAGACCGCGTCCGCCAGTGAGAGGTTATCACCCAGAAAGCCAAC 5600 Sbjet 4858 GGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGGTTATCACCCCTGCTGTCCAGACCAAC 4917 Query 5601 TGGCAGAAACTCGAGGTCCTTTTGGGCCGAAGCCAACGTGGAATTTCATCACTGGGGATACAA 5660 Sbjet 4918 TGGCAAAAACTCGAGGTCTTTTGGGCCGAAGCCAACGTGGAATTTCATCACTGGGGATACAA 4977 Query 5661 TACTTGGCGGGCCTGTCAACGCTGCTGTAACCCCCCCTCATTGATGAGTGGGATTACAA 5660 Sbjet 4978 TACTTGGCGGGCCTGTCAACGCTGCTGTAACCCCGCCATTCATT	_			-
Query         5541         GGCCTCCTGCAGACCGGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAAC         5600           Sbjet         4858         GGCCTCCTGCAGACCGGTCCCGTCAGGCAGAGGTTATCGCCCTGCTGTCCAGACCAAC         4917           Query         5601         TGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTCATCAGTGGGATACAA         5660           Sbjet         4918         TGGCAGAAACTCGAGGCTTTTTGGGCGAACCATTGTGGAATTCATCAGTGGGATACAA         4977           Query         5661         TACTTGGCGGGCCTGCAACCTTGCTCGTAACCCCCCCATTTCATTGATGGCTTT         5720           Sbjet         4978         TACTTGGCGGGCTTGCAACGCTGCTGGTAACCCCGCCATTCTTCAATGATGGCTTT         5037           Query         5721         ACAGCTGCCGTCAACGCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTGGGG         597           Sbjet         5038         ACAGCTGCTGCCAGCCCACTAACCACTAGCCAAACCCTCCTCTTTCAACATATTGGGG         597           Query         5781         ggg1TGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTACTGCCTTTTGGGGTGCTGC         5840           Sbjet         5098         GGGTGGGTGCCCCAGCTCAGCCCCCCGGTGCCGCTACTGCTTTTGAACATTTTGCA         590           Sbjet         5158         TTAGCTGGCCGCCCCATCGGCAGGCTTGGACTGGCGAAGGTCCTTTTGTGGGCTGCGC         5157           Query         5901         GGGTATGGCCGGCCCATCGGCAGGTTGGACTGGGGAAGGTCCTTTTGAACATTCTAAGACTATCAAGACTATCAAGACTCTTCCA         5277           Query         591         CCCTCCACGGAGGACC	_			
Sbjet 4858 GGCCTCCTGCAGACCGCTCCCGTCAGGCAGAGGTTATCGCCCCTGTGTCCAGACCAAC 4917 Query 5601 TGGCAGAAACTCGAGGCTCTTTTGGGCGAAGCATATGTGGATTCATCAGTGGGATACAA 5660 Sbjet 4918 TGGCAAAAACTCGAGGCTCTTTTGGGCGAAGCATATGTGGAATTCATCAGTGGGATACAA 4977 Query 5661 TACTTGGCGGGCTACCCTGCTGTACCCCGCCATTGCTTCATCAGTGGGATACAA 4977 Sbjet 4978 TACTTGGCGGGCTTGTCAACGCTGCTGTAACCCCGCCATTGCTTCATTGATGGCTTTT 5720 Sbjet 5038 ACAGCTGCTTCACAGGCCACTAACCACTGGCCAATACCTTCTCATTGATGGCTTTT 5037 Query 5721 ACAGCTGCCTGCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACAATTGGGG 5097 Query 5781 gggTGGGTGCTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTGGG 5097 Query 5781 gggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCTCTTTTTTTT	_			
Query5601TGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTCATCAGTGGGATACAA 1011111111111111111111111111111111111	_			
Sbjet 4918 TGGCAAAAACTCGAGACCTTCTGGGCGAAGCATTCATCAGTGGGATACCAA 4977  Query 5661 TACTTGGCGGCCTGTCAACGCTGCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTT 5720  Sbjet 4978 TACTTGGCGGGCTTGTCAACGCTGCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTT 5037  Query 5721 ACAGCTGCCGTCAACGCCTGCCTGGTAACCCCTCCTCTCAACATATTGAGGG 5780  Sbjet 5038 ACAGCTGCTGTCAACGCTGCCTAACCACTGGCCAAACCCTCCTCTCAACATATTGGGG 5097  Query 5781 GGGTGGCTGCCCAGCCCAGCCCACTAACCACTAGCCAAACCCTCCTTTCAACATATTGGGG 5097  Query 5781 GGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTTGCC 5840  Sbjet 5098 GGGTGGGTGCCCAGCTCGCCGCCCCCCGGTGCCGCTACTGCCTTTGTGGGGTGCC 5157  Query 5841 CTAGCTGGCGCGCCCCCCCCCCCCCCCCCCCGGTGCCCTTTGTGGGACCTTTGCA 5900  Sbjet 5158 TTAGCTGGCGCGCCACTGGCCAGCGTGGAAGGTCCTCTGTGAACATATTGGAC 5910  Sbjet 5158 TAGCTGGCGCGCCACTCGCCGCCCCCCCGGGAAGGTCCTCGTGGAACATCTTGCA 5217  Query 5901 GGGTATGGCGCGGGCGGCGAGGTGTGGACTGGGGAAAGGTCCTCATAGAACATCTTGCA 5217  Query 5910 GGGTATGGCGCGGGCGGGGGGGGGGGGGGGGGGGGC 5277  Query 5911 CCCCCCACGGAGGCTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAACAGTCTTGCA 5277  Query 5911 CCCCCCCACGGAGGACCTGTTGTGGCCCGCATCCTCCTCCGCTGGAGCCTTGTA 6020  Sbjet 5278 CCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCCCCTGGAGCCCTTGTA 5337  Query 6021 GTCGGTGGTGTCGCCAGCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTGTA 5337  Query 6021 GTCGGTGGTGTCGCCAATCTGCCCGCCACTCTCTCGCCTGGAGCCCTGTA 5397  Query 6081 CAATGGATGAACCGGCTAATAGCCTTCGCCTGGGGGAACCATGTTCCCCCACGCAC 5457  Query 6141 TACGTGCCGGAGACCATGTCTCGCCTCCCGGGGGAACCATGTTCCCCCACGCAC 5457  Query 6141 TACGTGCCGGAGAGCCTTGATAGCCTTCCCCGGGGGGAACCATGTTTCCCCCACGCAC 5457  Query 6141 TACGTGCCGGAGAGCGATGCAGCCTCCCCGGGGGGAACCATGTTTCCCCCACCGCAC 5457  Query 6141 TACGTGCCGGAGAGCGATGCAGCCTCCCGGGGGGAACCATGTTTCCCCCACCGAC 5457  Query 6141 TACGTGCCGGAGAGCGATGCAGCCTCCCGGGGGGAACCATGTTTCCCCCACCGCAC 5457  Query 6141 TACGTGCCGGAGAGCGATGCAGCCTCCCGGGGGGAACCATGTTTCCCCCACCGCAC 5457  Query 6141 ACCGTGCGGAGAGCGATGCAGCCTCCCGGGGGGAACCATGTTTCCCCCACCGCAC 5457  Query 6141 ACCGTGCGGAGAGCGATGCAGCCTCCCGGGGGGAACCATGTTTCCCCCACCGCAC 5457  Query 6141 ACCGTGCGGAGAGCGATGCAGCCTCCCGCGCGCACGGGGGGAACCATGTTTCCCCCACCG	_			-
Query5661TACTTGGCGGGCCTGTCAACGCTGCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTT5720Sbjet4978TACTTGGCGGGCTTGTCAACGCTGCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTT5037Query5721ACAGCTGCCGTCACCAGCCCATTACCACTGCCTCCTCTCTAACATATTGGGG5097Sbjet5038ACAGCTGCTGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTGGGG5097Query5781GGGTGGGTGGCCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTCTAACATATTGGGG5097Query5781GGGTGGGTGGCCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTTGTGGGTGCTGC5840Sbjet5098GGGTGGGTGGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGCC5157Query5841CTAGCTGGCGCCCCACTCGCCAGCTGGCAGCTTGGACTGTGGACATTCTTGCA5900Sbjet5158TTAGCTGGCGCCCCCATTGGCAGCTTTGTAGCATTCAAGATCATGAGCGGTGAGGTC5217Query5901GGGTATGGCCGGGCGGGGGGGGGGGTTGTGGACTGTGAACTCATGAGCATCCTATGACATCTTGCA5217Query5901GGGTATGGCCGGGCGGGGGGGGGGGGCTTTTGTAGCATTCAAGATCATGAGCGGTGAGGTC5277Query5961CCCTCCACGGAGGACCTGTTCAATCTGCCCGCCATCCTTCTGGCCGTGAGGCCTTGTA6020Sbjet5278CCCTCCACGGAGGACCTGGTCAATCTGCCGCCGCATCCTTCTGGCCGGGAGGCCCTTGTA5337Query6021GTCGGTGTGCTCGGCACCAATACTGCCGCGCATCCTTCTGGCCGGGAGGGGCAGTG5397Query6081CAATGGATGAACCGGCTAATACTGCCCCGCCATCCTTCTCGCCCGGGCGAGGGGCACCG5457Query6141TACGTGCCGGAGAGCGATCACACCATTCGCCTCCCGGGGGAACCATGTTTCCCCCACCACC5457Query6141TACGTGCCGGAGAGCGATCACACCACCATGCCTCCCGGGGGAACCATGTTTCCCCCACCACC5457Query6141TACGTGCCGGAGAGCGGTG	_			
Sbjet 4978 TACTTGGCGGCTTGTCAACGCTGCTGTAACCCCGCCATTGCTTCATTGATGGCTTTT 5037  Query 5721 ACAGCTGCTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTGGGG 5097  Query 5781 gggTGGGTGGCTGCCCAGCCCACTAACCACTAGCCAAACCCTCCTCTTCAACATATTGGGG 5097  Query 5781 gggTGGGTGGCTGCCCAGCCCAGCCCCCGGTGCCGCTACTGCCTTTGTGGGGTGCTGC 5840  Sbjet 5098 GGGTGGTGGCTGCCCAGCTCGCCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGCC 5157  Query 5841 CTAGCTGGCGCCGCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGCC 5157  Query 5901 GGGTATGGCGCGCGCATCGGCAGCTGTGACTGCCTTTGTGGGCAATCCTTGCA 5900  Sbjet 5158 TTAGCTGGCGCGCGCATCGGCAGTTGGACTTGGAAACCCTCCTCTGTAAACAATCTTGCA 5217  Query 5901 GGGTATGGCGGCGGGGAGGTTTGAACATTCAAGATCATGAACATCCTTGCA 5217  Query 5961 CCCTCCACGGAGGACCTGTTAACAATCTTAAAGATCATGAGAGGTAGGT	_			-
Query5721ACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTGGGG5780Sbjet5038ACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAACCCTCCTCTTCAACATATTGGGG5097Query5781GGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGTTCTCCATTGGGTGCTGC5840Sbjet5098GGGTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGTACTGCCTTTGTGGGGCGTGGC5157Query5841CTAGCTGGCGCCGCCATCGGCAGCTTGGACTGGGGAAAGGTCCTCGTTGGACATTCTTGCA5900Sbjet5158TTAGCTGGCGCCGCCATCGGCAGCTTGGACTGGGGAAAGGTCCTCATAGACATTCTTGCA5910Sbjet5158TTAGCTGGCGCCGCCATCGGCAGCTTTGACATTGACATTCAAGAACATCCTTGCA5217Query5901GGGTATGGCGGGGGGGGGGGGGGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGTC5960Sbjet5218GGGTATGGCCGGGGGGGGGGGGGGACTCTTGTGGCATTCAAGATCATGAGCGGTGAGGTC5277Query5961CCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCATCCTCTCGCCTGGAGCCCTTGTA6020Sbjet5278CCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCATCCTCTCTGCCCGGAGCCCTTGTA5337Query6021GTCGGTGGTGTGTGCGCAGCAATACTGCCCGCCACCTTTGGCCCGGAGGGGGAGGGGCAGTG5397Query6021GTCGGTGGTGTGCAGCAATACTGCCCCCGGGGGAACGTTGGCCCGGGGCAGGGGCAGTG5397Query6081CAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC6140Sbjct5398CAGTGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC5457Query6141TACGTGCCGGAGGCGTAGTGCACCGCCCCGGTCACTGCCATACTCAGCAGCCTCACTGTA6200Sbjct5458TACGTGCCGGAGAGCGATGCAGCCGCCCGGTCACTGCCATACTCAGCAGCCTCACTGTA5517Query6201ACCCAGCTCCT	_			
Sbjet 5038 ACAGCTGCTGCACCAGCCCACTAACCATAGCCAAACCCTCCTCTCACATATTGGGG 5097  Query 5781 GGTTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGC 5840  Sbjet 5098 GGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGGC 5157  Query 5841 CTAGCTGGCGCCGCCATCGGCAGCGTTGGAGAGGTCCTCGTGGACATTCTTGCA 5900  Sbjet 5158 TTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGAAGGTCCTCATAGACATCCTTGCA 5217  Query 5901 GGGTATGGCGCGCGCATCGGCAGGAGGTTTGACATTCAAGAATCATTGAGAGTCCTTGCA 5217  Sbjet 5218 GGGTATGGCGCGGCGCGATCGGCAGGAGGTCTTGTAGAATCATAGACATCCTTGCA 5227  Query 5961 CCCTCCACGGAGGACCTGGTCAATCTGCCTGCCATCCTCTCGCCTGGAGCCCTTGTA 6020  Sbjet 5278 CCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTTGTA 5337  Query 6021 GTCGGTGTGTCTGCAGCAATCATCATGACCGGGAGGGCCATCGTAGACATCTTGCAGATCATGAGCGGTGAGGT 5397  Query 6081 CAATGGATGAACCGGCTAATCACTGCCCGCCACCCTTGGCCCGGAGGGGCAGTG 5397  Query 6081 CAATGGATGAACCGGCTAATACTGCCCGCCACCCTTGGCCCGGCAGGGGCAGTG 5397  Query 6141 TACGTGCCGGAGAGACCTTCGCCTCCCGGGGGGAACCATGTTTCCCCCACGCAC 6140  Sbjet 5458 TACGTGCCGGAGAGCGATGCACCCGCGCATCCTCCCCGGGGGAACCATGTTCCCCCACGCAC 5457  Query 620 ACCCAGCTGATGAGCCGCCCCCCGCTCATCCTCAGCAGCCCTCACTGTA 6200  Sbjet 5458 TACGTGCCGGAGAGCGATGCAGCCCCCGCGTCACTCCCCAGCAC 5557  Query 621 ACCCACCGAGAGACCATGCCCCCGCGCCATCCTCAGCCACCACCTCTTCACCCACGCAC 6200  Sbjet 5458 TACGTGCCGGAGAGCGATGCAGCCCCCGCGCCATCCTCAGCAGCCCTCACTGTA 5517	_			
Query5781GGGTTGGGTGGCCCCCGGTTCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGC5840Sbjet5098GGGTGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGCGCTGGC5157Query5841CTAGCTGGCGCCCCATCGGCAGCGTTGGACTGGGAAAGGTCCTCGTGGACATTCTTGCA5900Sbjet5158TTAGCTGGCGCCCCATCGGCAGTGTGGACTGGGAAAGGTCCTCATAGACATCCTTGCA5217Query5901GGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGACAGTCCTTGCA5217Sbjet5218GGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTC5960Sbjet5218GGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGTC5277Query5961CCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTA6020Sbjet5278CCCTCCACGGAGGACCTGGTCAATCTGCCCGCCATCCTCTCGCCCGGAGCCCTTGTA5337Query6021GTCGGTGTGTCTGCGCAGCAATACTGCCCGCCATCCTCTCGCCCGGAGCGCCTCGTA5337Query6021GTCGGTGTGTCTGCGCAGCAATACTGCCCGCCACGTTGGCCCGGGCGAGGGGCAGTG6080Sbjet5338GTCGGCGTGGTCTGCGCAATACTGCCCCCCGGGGGAACCATGTTTCCCCCACGCAC6140Sbjet5398CAGTGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC5457Query6141TACCTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCAGCAGCCTCACTGTA5517Query6141TACCTGCCGGAGAGCGATGCAGCCGCCCGCTCACTGCCATACTCAGCAGCCTCACTGTA5517Query6201ACCCAGCTCCTGAGGCGATCACTGCATCACTGCCATACTCAGCAGCCTCACTGTA5517	_	-		
Sbjet 5098 GGGTGGCCGCCCCCCGGTGCCGCCCCCCGGTGCCGTTGTT	_			
Query5841CTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAAGGTCCTCGTGGACATTCTTGCA IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	_			
Sbjet 5158 TTAGCTGGCGCCCCCCCCGCGCGCGCGCGGGGGAAGGTCCTCATAGACATCCTTGCA 5217  Query 5901 GGGTATGGCGCGGGGCGGGGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTC 5960  Sbjet 5218 GGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTC 5277  Query 5961 CCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTA 6020  Sbjet 5278 CCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTA 5337  Query 6021 GTCGGTGTGGTCTGCGCAGCAATACTGCGCCGCCATCCTCTCGCCCGGAGCCCTCGTA 5337  Query 6021 GTCGGTGTGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGCGAGGGGGCAGTG 6080  Sbjet 5338 GTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTG 5397  Query 6081 CAATGAATCAACCAGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA 6140  Sbjet 5398 CAGTGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCA 5457  Query 6141 TACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTGCATACTCAGCAGCCTCACTGTA 6200  Sbjet 5458 TACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA 5517  Query 6201 ACCCAGCTCCTGAGGCGACTGCATCAGTGGAGTGTACCACTCCATGTCC 6260	_			
Query5901GGGTATGGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTC5960Sbjet5218GGGTATGGCGCGGGCTGGCGGGAGCTCTTGTGGCATTCAAGATCATGAGCGGTGAGGTC5277Query5961CCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTA IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	_			
Sbjct 5218 GGGTATGGCGGGGGGGGGGGGGGGGCCTTGTGGCATTCAAGATCATGAGCGGTGAGGTC 5277  Query 5961 CCCTCCACGGAGGACCTGGTCAATCTGCTGCCGCCATCCTCTGGCCTGGAGCCCTTGTA 6020 Sbjct 5278 CCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGTA 5337  Query 6021 GTCGGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGGGGAGGGGGGAGTG 6080 Sbjct 5338 GTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGGCCACGTTGGCCCGGGCGAGGGGGGAGTG 5397  Query 6081 CAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC 6140 Sbjct 5398 CAGTGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC 5457  Query 6141 TACGTGCCGGAGAGCGATGCAGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC 5457  Query 6201 ACCCAGCTCTGAGGCGATGCAGCCGCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA 5517  Query 6201 ACCCAGCTCCTGAGGCGACTGCATCAGTGAGAGCCTCACTGTA 5517	2			
Query       5961       CCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTA       6020         Sbjct       5278       CCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGTA       5337         Query       6021       GTCGGTGTGGTCTGCCGAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTG       6080         Sbjct       5338       GTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTG       5397         Query       6081       CAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC       6140         Sbjct       5398       CAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC       5457         Query       6141       TACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA       6200         Sbjct       5458       TACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA       5517         Query       6201       ACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCC       6260	_			
Sbjet 5278 CCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGCCCGGAGCCCTCGTA 5337  Query 6021 GTCGGTGTGCTCGCCAGCAATACTGCGCCGGCACGTTGGCCCGGAGGGGGGAGGGGGAGGGGGAGGGGGGAGGGGGAGGGGG	_			
Query 6021 GTCGGTGTGCTCGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTG 6080 Sbjct 5338 GTCGGCGTGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTG 5397 Query 6081 CAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC 6140 Sbjct 5398 CAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC 5457 Query 6141 TACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTGCATACTCAGCAGCCTCACTGTA 6200 Sbjct 5458 TACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA 5517 Query 6201 ACCCAGCTCCTGAGGCGACTGCATCAGTGGATGACCACTCCATGCTC 6260	_			
Sbjet 5338 GTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGGCAGTG 5397  Query 6081 CAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC 6140  Sbjet 5398 CAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC 5457  Query 6141 TACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA 6200  Sbjet 5458 TACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA 5517  Query 6201 ACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCCTCGGAGTGTACCACTCCATGCTC 6260	_			
Query       6081       CAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC       6140         Sbjct       5398       CAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC       5457         Query       6141       TACGTGCCGGAGAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA       6200         Sbjct       5458       TACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA       5517         Query       6201       ACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCC       6260	_			
Sbjet 5398 CAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCAC 5457  Query 6141 TACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTGCATACTCAGCAGCCTCACTGTA 6200 Sbjet 5458 TACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA 5517  Query 6201 ACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCC 6260	_			
Query 6141 TACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA 6200 Sbjct 5458 TACGTGCCGGAGAGCGATGCAGCTGCCGCGTCACTGCCATACTCAGCAGCCTCACTGTA 5517  Query 6201 ACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCC 6260	_			
Sbjct 5458 TACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCATACTCAGCAGCCTCACTGTA 5517  Query 6201 ACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCC 6260	_			
Query 6201 ACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCC 6260	_			
	_	6201		6260
	Sbjct	5518		5577

Query	6261	GGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACC	6320
Sbjct	5578	ĠĠŦŦĊĊŦĠĠĊŦĂĂĠĠĠĂĊĂŦĊŦĠĠĠĂĊŦĠĠĂŦĂŦĠĊĠĂĠŦĠŦŦĠĀĠĊĠĂĊŦŦŦĂĂĠĂĊĊ	5637
Query	6321	TGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCGC	6380
Sbjct	5638	TĠĠĊŤAĂĂĂĠĊŤĂĂĠĊŤĊĂŤĠĊĊĂĊĂĠĊŤĠĊĊŤĠĠĠĂŤĊĊĊĊŤŤŤĠŤĠŤĊĊŤĠĊĊĂĠĊĠĊ	5697
Query	6381	GGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGCTGCCACTGTGGAGC	6439
Sbjct	5698	ĠĠĠŦŔŦŔŔĠĠĠĠĠŦĊŦĠĠĊĠŔĠŦĠ~ĠŔĊĠĠĊŔŦĊŔŦĠĊŔĊŔĊŦĠĊĊŔĊŦĠŦĠĠŔĠĊ	5756
Query	6440	TGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAG	6499
Sbjct	5757	TĠĀĠĀTĊĀĊŦĠĠĀĊĀŦĠŦĊĀĀĀĀĀĊĠĠĠĀĊĠĀŦĠĀĠĠĀŤĊĠŦĊĠĠŦĊĊŦĀĠĠĀĊĊŦĠĊĀĠ	5816
Query	6500	GAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCCT	6559
Sbjct	5817	ĠAAĊAŤĠŤĠĠAĠŤĠĠĠAĊĊŤŤĊĊĊĊĂŤŤAAŤĠĊĊŤAĊAĊĠĠĠĊĊĊĊŤĠŤAĊĊĊĊĊŤ	5876
Query	6560	TCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGAT	6619
Sbjct	5877	tcctgcgccgaactacacgttcgcgctatggaggtgtctgcagaggaatatgtggagat	5936
Query	6620	AAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGACAATCTTAAATGCC	6678
Sbjct	5937	aaggcaggtgggggacttccactacgtga-cgggtatgactactgacaatctcaaatgcc	5995
Query	6679	CGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGGT	6738
Sbjct	5996	cgtgccaggtcccatcgcccgaatttttcacagaattggacggggtgcgcctacataggt	6055
Query	6739	TTGCGCCCCTTGCAAGCCCTTGCTGCGGGAGGAGTATCATTCAGAGTAGGACTCCACG	6798
Sbjct	6056	tigcgccccctgcaagcccttgctgcgggaggaggtatcattcagagtaggactccacg	6115
Query	6799	AGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACGT	6858
Sbjct	6116	AATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTGGCCGTGTTGACGT	6175
Query	6859	CCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAG	6918
Sbjct	6176	ccatgctcactgatccctcccatataacagcagaggcggccgggcgaaggttggcgag-g	6234
Query	6919	GG-TCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAG	6977
Sbjct	6235	ggatcaccccctctgtggccagctcctcggctagccagctatccgctccatctctaag	6294
Query	6978	GCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTG	7037
Sbjct	6295	gcaacttgcaccgctaaccatgactccctgatgctgagctcatagaggccaacctccta	6354
Query	7038	TGGAGGCAGGAGATGGGCGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATT	7097
Sbjct	6355	TGGAGGCAGGAGATGGGCGAACATCACCAGGGTTGAGTCAGAAAACAAAGTGGTGATT	6414
Query	7098	CTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCA	7157
Sbjct	6415	ctggactccttcgatccgcttgtggcggaggaggacgagcgggagatctccgtacccgca	6474
Query	7158	GAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGGCCGGAC	7217
Sbjct	6475	ĠAAATCĊŢĠĊĠĠAAĠŢĊŢĊĠĠAĠAŢŢĊĠĊĊĊAĠĠĊĊĊŢĠĊĊĊĠŢŢŢĠĠĠĊĠĠĊĊĠĠAĊ	6534
Query	7218	TACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCAT	7277
Sbjct	6535	TATAACCCCCCGCTAGTGGAGACGTGGAAAAAGCCCGACTACGAACCACCTGTGGTCCAT	6594
Query	7278	GGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACG	7337
Sbjct	6595	GGCTGTCCGCTTCCACCTCCAAAGTCCCCTCCTGTGCCTCCGCCTCGGAAGAAGCGGACG	6654
Query	7338	GTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTTT	7397
Sbjct	6655	GTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCGCCACCAGAAGCTTT	6714

Query	7398	GGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCC	7457
Sbjct	6715	ggcagctcctcaacttccgcattacggccgacaatacgacaacatcctctgagcccgcc	6774
Query	7458	CCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTTCCATGccccccTGGAG	7517
Sbjct	6775	ccttctgcttgccccccgactccgacgctgagtcctattcctccatgcccccctggag	6834
Query	7518	GGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGCC	7577
Sbjct	6835	GGGGAGCCTGGGGATCCTGGCGACGGGTCATGGTCAACGGTCAGTAGTGAGGCC	6894
Query	7578	GACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCACC	7637
Sbjct	6895	AACGCGGAGGATGTCGTGTGCTCAATGTCTTACTCTTGGACAGGCGCACTCGTCACC	6954
Query	7638	CCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGC	7697
Sbjct	6955	CCGTGCGCCGCGGAAGAACAGAAACTGCCCATCAATGCACTAAGCAACTCGTTGCTACGT	7014
Query	7698	CATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTC	7757
Sbjct	7015	CACCACAATTTGGTGTATTCCACCACCTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTC	7074
Query	7758	ACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAA	7817
Sbjct	7075	ACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTACTCAAGGAGGTTAAA	7134
Query	7818	GCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGACG	7877
Sbjct	7135	GCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGACG	7194
Query	7878	CCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGCC	7937
Sbjct	7195	CCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAAGACGTCCGTTGCCATGCC	7254
Query	7938	AGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACA	7997
Sbjct	7255	AGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAATGTAACA	7314 8057
Query	7998 7315	CCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGG	7374
Sbjct Query	8058		8117
Sbjct	7375	GGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAAG	7434
Query	8118	ATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATGGGAAGCTCCTACGG	8176
Sbjct	7435		7493
Query	8177	ATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAA	8236
Sbjct	7494		7553
Query	8237	GACCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGA	8296
Sbjct	7554		7613
Query	8297	CATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGC	8356
Sbjct	7614		7673
Query	8357	CATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGA	8416
Sbjct	7674		7733
Query	8417	AAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACAC	8476
Sbjct	7734		7793
Query	8477	CCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCAC	8536
Sbjct	7794		7853

Query	8537	CATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGA	8596
Sbjct	7854	CATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCGGGGGGTCCAGGAGGA	7913
Query	8597	CGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGcccccccgggg8	8656
Sbjct	7914	CGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCTGGGGA	7973
Query	8657	cecccaCaACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGT	8716
Sbjct	7974	CCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCCTCCAACGTGTCAGT	8033
Query	8717	CGCCCACGACGCCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCT	8776
Sbjct	8034	CGCCCACGACGCCTGGAAAGAGGGTCTACTACCTCACCCGTGACCCTACAACCCCCCT	8093
Query	8777	CGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACAT	8836
Sbjct	8094	CGCGAGAGCTGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACAT	8153
Query	8837	AATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGT	8896
Sbjct	8154	AATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGT	8213
Query	8897	CCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTA	8956
Sbjct	8214	CCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATCTACGGGGCCTGCTA	8273
Query	8957	CTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC 8999	
Sbjct	8274		

## >**gb|AR916116.1|** Sequence 9 from patent US 7084266 Length=9611

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Score = 1.310e+04 bits (7095), Expect = 0.0 Identities = 7616/7855 (96%), Gaps = 86/7855 (1%)
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                                                 1848
Query
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    1797
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                                                 1854
Query
    1849
        1907
        1855
                                                 1913
Sbjct
    1908
        GGCGCGCCTACCTACAGC-TGGGGTGCA-AATGATACGGATGTCTTCGTCCTT-AACAAC
                                                 1964
Query
        1914
        ĠĠŖĠĊĠĊĊŔĊŦŦŔĊŔĸĊĠŦĠĠĠĠĸĠĠŔĠŔŔŦĠŔĠŔĊŔĠŔŦĠŦĊŦŦĊĊŦĸĸŦŦĠŔŔĊŔĠĊ
                                                 1970
Sbjct
    1965
        AC-CAGGCCACCGCT-GGG-CAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTC
                                                 2021
Query
        Sbjct
    1971
                                                 2027
    2022
        ACCAA-AGTGTGCGGAGCGCC-CCCTTG-TGTCATCGGAGGGGTG--GGCAA---CA--A
                                                 2071
Query
        2082
    2028
Sbjct
        C--ACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATCCGGA-AGCCACATACTCTC-
    2072
                                                 2127
Query
          2083
                                                 2139
Sbjct
Query
    2128
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                                                 2187
         AATGCGGCTCTGGCCCTGCCCAAGGTGCCTGATCGACTACCCCTACAGGCTCT
    2140
                                                 2199
Sbjct
        GGCACTATCCTTGTACCA-TCAATTACACCATATTCAAAGTCAGGATGTACGTGGGAGGG
    2188
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Query
        Sbjct
    2200
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```

Query	2247	GTCGAGCACAGGCTGGA-AGCGGCCTGCAACTGGACGCG-GGGCGAACGCTGTG-ATC-T	2302
Sbjct	2259	ĠŤŦĠĀĠĊĀĊĀĠĠĊŤ-CĀCĠĠĊŦĠĊĀŤĠĊĀĀŦŤŦĊĀĊŦĊĠŦĠĠĠ-ĠĀŦĊĠ-Ť-ŤĠĊĀĀĊŦŤ	2314
Query	2303	GGAAGACAGGGACAG-GTCCGAGCTCAG-C-CCGTTGCTGCTGTCCACCACACAGT-GG	2357
Sbjct	2315	ĠĠĀĠĠĀĊĀĠĀĠĀĊĀĠĀĀĠŤ~Ċ~ĀĀĊŤ~~ĠŦĊŦĊĊŦŤŤĠŦŤĠĊĀĊŤĊĊĀĊĊĀĊĠĠĀĀŤĠĠĠ	2370
Query	2358	-CAGGTCCTT-CCGTGTTCTTTCAC-GACCCTGCCAGCCTTGTCCACCGG-CCTCATCCA	2413
Sbjct	2371	CCAT-TTTACCTTGCTCTTACTCGGA-CCTGCCCGCCTTGTCGACTGGTCTTC-TCCA	2425
Query	2414	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG-CGT	2472
Sbjct	2426	CCTCCACCAAAACATCGTGGACGTACAATTCATGTATGGCCTATC-A-CCT-GCCCT	2479
Query	2473	C-C-TGGGCCATTAAG-TGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTT-GCAGACG	2526
Sbjct	2480	CACAAAATACATCGTCCGATGGGAGTGGGTAATACTCTTATTCCTGCT-CTTAGCGGACG	2538
Query	2527	CGC-GCGTCTGCTCCTGCTTGTGGATGATGTTAC-TCATATCCCAAGCGGAGGCGGCTTT	2584
Sbjct	2539	C-CAGGGTTTGCGCCTGCTTATGGATGCTCAT-CTTGTTGGGCCAGGCCGAAGCAGCTTT	2596
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2644
Sbjct	2597	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2656
Query	2645	CCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2704
Sbjct	2657	CCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2716
Query	2705	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATA	2764
Sbjct	2717	CGCCCTCTACGGGATGTGGCCTCCTCCTCCTGCTGCTGGCGTTGCTCAGCGGGCATA	2776
Query	2765	CGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGC	2824
Sbjct Query	2777 2825	TGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGC	2836 2884
Sbjct	2837	GCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2896
Query	2885	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccccTCAACGTCCcccc	2944
Sbjct	2897		2956
Query	2945	aggcCCCGATCCCATCTTACTCATGTGTGTACACCCCGACCCTGGTATTTGACAT	3004
Sbict	2957		3016
Query	3005	CACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3064
Sbjct	3017		3076
Query	3065	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3124
Sbjct	3077		3136
Query	3125	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3184
Sbjct	3137		3196
Query	3185	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGC	3244
Sbjct	3197		3256
Query	3245	CGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3304
Sbjct	3257		3316
Query	3305	AGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCA	3364
Sbjct	3317	AGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCA	3376

Query	3365	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3424
Sbjct	3377	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3436
Query	3425	CATCACGGCGTACGCCCAGCAGACGAGGCCTCCTAGGGTGTATAATCACCAGCCTGAC	3484
Sbjct	3437	catcacgcctacgcccagacgacgacgcctcctagggtgtataatcaccagcctgac	3496
Query	3485	TGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3544
Sbjct	3497	ŤĠĠĊĊĠĠĠĂĊĂĂĂĂĂĊĊĂĂĠŤĠĠĂĠĠĠŤĠĂĠĠŤĊĊĂĠĂŤĊĠŤĠŤĊĂĂĊŤĠĊŤĂĊĊĊĂĂĂĊ	3556
Query	3545	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3604
Sbjct	3557	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3616
Query	3605	GACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3664
Sbjct	3617	GACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3676
Query	3665	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3724
Sbjct	3677	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3736
Query	3725	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAG	3784
Sbjct	3737	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAG	3796
Query	3785	CAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCC	3844
Sbjct	3797	CAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCC	3856
Query	3845	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGG	3904
Sbjct	3857	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGG	3916
Query	3905	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3964
Sbjct	3917	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3976 4024
Query	3965 3977	GGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCT	4024
Sbjct Ouerv	4025	GCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGG	4036
Sbjct	4037		4096
Ouerv	4085	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4144
Sbjct	4097		4156
Query	4145	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGG	4204
Sbjct	4157		4216
Query	4205	CAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4264
Sbjct	4217		4276
Query	4265	TGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4324
Sbjct	4277		4336
Query	4325	CATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4384
Sbjct	4337		4396
Query	4385	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4444
Sbjct	4397		4456
Query	4445	CACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4504
Sbjct	4457		4516

Query	4505	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4564
Sbjct	4517	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4576
Query	4565	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4624
Sbjct	4577	ĊĠĊĂŢŢĠĠĊĂŢĊĂĂŢĠĊĊĠŢĠĠĊĊŢĂĊŢĂĊĊĠĊĠĠŢĊŢŢĠĂĊĠŢĠŢĊŢĠŢĊ	4636
Query	4625	CAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4684
Sbjct	4637	CAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4696
Query	4685	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCC	4744
Sbjct	4697	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCC	4756
Query	4745	TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4804
Sbjct	4757	TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4816
Query	4805	GGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4864
Sbjct	4817	GGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4876
Query	4865	CTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4924
Sbjct	4877	CTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4936
Query	4925	TGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4984
Sbjct	4937	TGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5044
Sbjct	4997	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5056
Query	5045	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGC	5104
Sbjct	5057	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGC	5116
Query	5105 5117	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTG	5164 5176
Sbjct Query	5165	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5224
Sbjct	5177	GAAGTGTTTGATCCGCCTTAAACCCACCTCCATGGGCCAACACCCCTGCTATACAGACT	5236
Ouerv	5225	GGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATG	5284
Sbict	5237	GGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATGACATG GGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATG	5296
Query	5285	CATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGC	5344
Sbjct	5297		5356
Query	5345	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357		5416
Query	5405	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5464
Sbjct	5417		5476
Query	5465	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5524
Sbjct	5477		5536
Query	5525	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5584
Sbjct	5537		5596
Query	5585	TGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597		5656

Query	5645	CATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5704
Sbjct	5657	CATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5716
Query	5705	TTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCT	5764
Sbjct	5717	TŤĊĂŤŤĠĂŤĠĠĊŤŤŤŤĂĊĂĠĊŤĠĊĊĠŤĊĂĊĊĂĠĊĊĊĂĊŤĂĂĊĊĂĊŤĠĠĊĊĂĂĂĊĊĊŤĊĊŤ	5776
Query	5765	CTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5824
Sbjct	5777	CTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5836
Query	5825	CTTTGTGGGTGCTGGCCTAGCTGGCCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5884
Sbjct	5837	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5896
Query	5885	CGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5944
Sbjct	5897	CGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5956
Query	5945	CATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTC	6004
Sbjct	5957	CATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTC	6016
Query	6005	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6064
Sbjct	6017	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6076
Query	6065	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6124
Sbjct	6077	GGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6136
Query	6125	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6184
Sbjct	6137	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTGCCATACT	6196
Query	6185	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6244
Sbjct	6197	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6256
Query	6245	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6304
Sbjct	6257	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6316
Query	6305	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTT	6364
Sbjct	6317	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTT	6376
Query	6365	TGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6424
Sbjct	6377	TGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGCATTATGCACACTCG	6436
Query	6425 6437	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6484 6496
Sbjct	6485		6544
Query	6497	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6556
Sbjct	6545		6604
Query	6557	CCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6616
Sbjct			
Query	6605	GGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6664
Sbjct	6617	GGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6676
Query	6665 6677	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6724 6736
Sbjct			
Query	6725	GCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAG	6784
Sbjct	6737	GCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAG	6796

Query 6785 AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGA	
Sbjct 6797 AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGA	
Query 6845 AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGC	
Sbjct 6857 AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGC	
Query 6905 AAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTC	
Sbjct 6917 AAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTC	CCGC 6976
Query 6965 TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	
Sbjct 6977 TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCA	
Query 7025 GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	
Sbjct 7037 GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAG	AGAA 7096
Query 7085 CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGA	
Sbjct 7097 CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGG	AGGT 7156
Query 7145 CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCG	
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Query 7205 GGCGGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACG	
Sbjet 7217 ggcgcggactacaaccccccgctagtagagacgtggaaaaagcctgactacga	
Query 7265 ACCTGTGGTCCATGCCTGCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCCGCC	
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Query 7325 GAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGC	
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Query 7385 CACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	
Sbjet 7397 CACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAA	
Query 7445 CTCTGAGCCCGCCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTTC	
Sbjet 7457 CTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTTC	
Query 7505 GccccccTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGAC	
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Query 7565 CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGAG	
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Sbjct 7877 TTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGA	

Query	7925	CCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7984
Sbjct	7937	ccgttgccatgccagaaaggccgtagcccacatcaactccgtgtggaaagaccttctgga	7996
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Sbjct	7997	agacagtgtaacaccaatagacactaccatcatggccaagaacgaggttttctgcgttca	8056
Query	8045	GCCTGAGAAGGGGGGCCTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCG	8104
Sbjct	8057	GCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCG	8116
Query	8105	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8164
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Sbjct	8177	AAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTG	8236
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Query	8345	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8404
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Query	8525 8537	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8596
Sbjct Querv	8585	GGTCCAGGAGGACGCGGGGGGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8644
Sbjct	8597	GGTCCAGGAGGACGCGGGGGGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGC	8656
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Sbjct	8897		8956
Query	8945	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9004
Sbjct	8957		9016
Query	9005	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9064
Sbjct	9017		9076

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        9077
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Sbjct
Query
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        9197
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Score = 1118 bits (605), Expect = 0.0 Identities = 810/906 (89%), Gaps = 26/906 (2%)
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Sbjct
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Query
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Sbjct
    888
        TCCTGC
              893
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## >gb|AR916114.1| Sequence 5 from patent US 7084266 Length=9611

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    1797
                                                 1854
        Query
    1849
                                                 1907
        1855
                                                 1913
Sbjct
    1908
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Sbjct
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    1971
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    2022
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Query
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    2188
Query
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Query
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                                                 2302
        Sbjct
    2259
                                                 2314
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Query	2303	GGAAGACAGGGACAGGTCCGAGCTCAG-C-CCGTTGCTGCTGTCCACCACACAGT-GG	2357
Sbjct	2315		2370
Query	2358	-CAGGTCCTT-CCGTGTTCTTTCAC-GACCCTGCCAGCCTTGTCCACCGG-CCTCATCCA	2413
Sbjct	2371	ccai-titacctigcicitactcgga-ccigcccgcctigtcgactggtcttc-icca	2425
Query	2414	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG-CGT	2472
Sbjct	2426	CCTCCACCAAAACATCGTGGACGTACAATTCATGTATGGCCTATC-A-CCT-GCCCT	2479
Query	2473	C-C-TGGGCCATTAAG-TGGGAGTACGTCGTTCTCTGTTCCTTCTGCTT-GCAGACG	2526
Sbjct	2480 2527	CACAAAATACATCGTCCGATGGGAGTGGGTAATACTCTTATTCCTGCT-CTTAGCGGACG CGC-GCGTCTGCTCCTGCTTGTGGATGATGTTAC-TCATATCCCAAGCGGAGGCGGCTTT	2538 2584
Query Sbjct	2539	CGC-GCGTCTGCTCCTGCTGTGGATGATGTTAC-TCATATCCCAAGCGGAGGCGGCTTT	2596
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2644
Sbjct	2597		2656
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Sbjct	2657		2716
Query	2705	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATA	2764
Sbjct	2717	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGCGGGTTGCCTCAGCGGGCATA	2776
Query	2765	CGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGC	2824
Sbjct	2777	TGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGC	2836
Query	2825	GCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2884
Sbjct	2837	GCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2896
Query	2885	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccCCCAACGTCCgggg	2944
Sbjct Query	2897 2945	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCCGGGG aaggCGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACAT	2956 3004
Sbjct	2943	GGGGCGCGATGCCGTCATCTTACTCATGTGTGTACACCCCGACCCTGGTATTTGACAT	3016
Query	3005	CACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3064
Sbjct	3017		3076
Query	3065	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3124
Sbjct	3077	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3136
Query	3125	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3184
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Query	3185	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGC	3244
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Sbjct	3257	CGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3316
Query	3305	AGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCA	3364
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Query Sbjct	3365 3377	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3424 3436
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Query	3425	CATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGAC	3484
Sbjct	3437		3496
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Sbjct	3497	TGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3556
Query	3545	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3604
Sbjct	3557	ĊŢŢĊŢĠĠĊĸĸĊĠŢĠĊĸŢĊĸĸŢĠĠĠĠĸŢĠŢĠŢĠŢĊŢĸĊĊĸĊĠĠĠĠĊĊĠĠĸĸĊĠĸĠ	3616
Query	3605	GACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3664
Sbjct	3617	GACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3676
Query	3665	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3724
Sbjct	3677	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3736
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Sbjct	3737	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAG	3796
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Query	3845	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGG	3904
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Query	3905	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3964
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Query	4085	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4144
Sbjct	4097	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4156
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Sbjct	4157		4216
Query	4205	CAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4264
Sbjct	4217		4276
Query	4265	TGCTTATGACATAATTATTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4324
Sbjct	4277		4336
Query	4325	CATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4384
Sbjct	4337	CATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4396
Query	4385	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4444
Sbjct	4397		4456
Query	4445	CACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4504
Sbjct	4457		4516
Query	4505	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4564
Sbjct	4517	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4576

Query	4565	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4624
Sbjct	4577		4636
Query	4625	CAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4684
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Sbjct	4877		4936
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Sbjct	4937	TGAGCTCACGCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5044
Sbjct	4997	tcccgtgtgccaggaccatcttgaattttgggagggcgtctttacgggcctcactca	5056
Query	5045	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGC	5104
Sbjct	5057	AGATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGC	5116
Query	5105	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTG	5164
Sbjct	5117	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTG	5176
Query	5165	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5224
Sbjct	5177	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5236
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Sbjct	5237	GGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATG	5296
Query Sbjct	5285 5297	CATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGC	5344 5356
Query	5345	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5416
Query	5405	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5464
Sbjct	5417		5476
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Sbjct	6317	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTT	6376
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Query	2414	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG-CGT	2472
Sbjct	2426	ĊĊŤĊĊĂĊĊĂAĂĂĊĂŤĊĠŤĠĠĂĊĠŤAĊĂAŤŤĊAŤĠŤĂŤĠĠĊĊŤĂ——ŤĊ—Ă—ĊĊŤ—ĠĊĊĊŤ	2479
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Query	3125	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3184
Sbjct	3137	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3196
Query	3185	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGC	3244
Sbjct	3197	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGC	3256
Query	3245	CGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3304
Sbjct	3257	CGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3316
Query	3305	AGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCA	3364
Sbjct	3317	AGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCCGACCCTAGGGGCCA	3376
Query Sbjct	3365 3377	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3424 3436
_	3425	CATCACGGCGTACGCCCAGCAGACGAGAGGGCCTCCTAGGGTGTATAATCACCAGCCTGAC	3436
Query	2443		2404

Sbjct	3437	CATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGAC	3496
Query	3485	TGGCCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3544
Sbjct	3497	TGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3556
Query	3545	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3604
Sbjct	3557	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3616
Query	3605	GACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3664
Sbjct	3617	GACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3676
Query	3665	TGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3724
Sbjct	3677	tgtgggctggcccgctcctcaaggttcccgctcattgacaccctgtacctgcggctcctc	3736
Query	3725	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAG	3784
Sbjct	3737	gacctttacctggtcacgaggcacgccgatgtcattcccgtgcgccggcgaggtgatag	3796
Query	3785	CAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCC	3844
Sbjct	3797	caggggtagcctgctttcgccccggcccatttcctacttgaaaggctcctcggggggtcc	3856
Query	3845	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGG	3904
Sbjct	3857	ĠĊŦĠŦŦĠŦĠĊĊĊĠĊĠĠĠĀĊĀĊĠĊĠŦĠĠĠĊĊŦĀŦŦĊĀĠĠĠĊĊĠĊĠĠŦĠŦĠĊĀĊĊĊĠŦĠĠ	3916
Query	3905	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3964
Sbjct	3917	agtiggétaaagéggtiggaétttatééétigtiggagaacétagggaéaacéatgagatéééé	3976
Query	3965	GGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCT	4024
Sbjct	3977	ggtgttcacggacaactcctctccaccagcagtgccccagagcttccaggtgcccacct	4036
Query	4025	GCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGG	4084
Sbjct	4037	ĠĊĂŢĠĊŢĊĊĊĂĊĊĠĠĊĂĠĊĠĠŢĀĀĠĀĠĊĂĊĊĂĀĠĠŢĊĊĊĠĠĊŢĠĊĠŢĀĊĠĊĀĠĊĊĊĀĠĠĠ	4096
Query	4085	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4144
Sbjct	4097	ĊŦŔĊŔŔĠĠŦĠŦŦĠĠŦĠĊŦĊŔŔĊĊĊĊŦĊŦĠŦŦĠĊŦĠĊŔŔĊĠĊŦĠĠĠĊŦŦŦĠĠŦĠĊŦŦŔĊŔŦ	4156
Query	4145	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGG	4204
Sbjct	4157	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGG	4216
Query	4205	CAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4264
Sbjct	4217	CAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4276
Query	4265	TGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4324
Sbjct	4277	TGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4336
Query	4325	CATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4384
Sbjct	4337	CATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4396
Query	4385	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4444
Sbjct	4397	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4456
Query	4445	CACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4504
Sbjct	4457	CACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4516
Query	4505	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4564
Sbjct	4517	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4576
Query	4565	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4624

Sbjct	4577	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4636
Query	4625	CAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4684
Sbjct	4637	CAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4696
Query	4685	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCC	4744
Sbjct	4697	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCC	4756
Query	4745	TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4804
Sbjct	4757	TACCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4816
Query	4805	GGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4864
Sbjct	4817	GGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4876
Query	4865	CTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4924
Sbjct	4877	ctccggcatgttcgactcgtccgtcttgtgagtgctatgacgcgggctgtgcttggta	4936
Query	4925	TGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4984
Sbjct	4937	TGAGCTCACGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5044
Sbjct	4997	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5056
Query	5045	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGC	5104
Sbjct	5057	agatgcccactttttatcccagacaaagcagagtggggagaactttccttacctggtagc	5116
Query	5105	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTG	5164
Sbjct	5117	gtaccaagccaccgtgtgcgctagggctcaagccccttcccccatcgtgggaccagatgtg	5176
Query	5165	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5224
Sbjct	5177	gaagtgtttgatccgccttaaacccaccctccatgggccaacacccctgctatacagact	5236
Query	5225	GGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATG	5284
Sbjct	5237	gggcgctgttcagaatgaagtcaccctgacgcacccaatcaccaaatacatcatgacatg	5296
Query	5285	CATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGC	5344
Sbjct	5297	catgtcggccgacctggaggtcgtcacgagcacctgggtgctcgttggcgcgtcctggc	5356
Query	5345	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357	rgctctggccgcgtattgcctgtcaacaggctgcgtggtcatagtgggcaggatcgtctt	5416
Query	5405	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5464
Sbjct	5417	ĠŤĊĊĠĠĠAAĠĊĊĠĠĊAAŤŤAŤAĊĊŤĠAĊAĠĠĠĠĠŤŤĊŤĊŤAĊĊĀĠĠĀĠŤŤĊĠAŤĠĀĠĀŤ	5476
Query	5465	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5524
Sbjct	5477	ggaagagtgctctcagcacttaccgtacatcgagcaagggatgatgctcgctgagcagtt	5536
Query	5525	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5584
Sbjct	5537	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5596
Query	5585	TGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597	TGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5656
Query	5645	CATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5704
Sbjct	5657	CATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5716
Query	5705	TTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCT	5764

Sbjct	5717	TTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCT	5776
Query	5765	CTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5824
Sbjct	5777	ctrcaacatattgggggggtggctgcccagctcgccgccccggtgccgctactgc	5836
Query	5825	CTTTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5884
Sbjct	5837	ĊŤŤŤĠŤĠĠĠŤĠĊŤĠĠĊĊŤĂĠĊŤĠĠĊĠĊĊĠĊĊĂŤĊĠĠĊĂĠĊĠŤŤĠĠĂĊŤĠĠĠĠĂĂĠĠŤĊĊŤ	5896
Query	5885	CGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5944
Sbjct	5897	ĊĠŦĠĠĂĊĂŦŦĊŦŦĠĊĀĠĠĠŦĀŦĠĠĊĠĊĠĠĠĊĠŦĠĠĊĠĠĠĀĠĊŦĊŦŦĠŦĀĠĊĀŦŦĊĀĀĠĀŦ	5956
Query	5945	CATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTC	6004
Sbjct	5957	CATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTC	6016
Query	6005	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6064
Sbjct	6017	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6076
Query	6065	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6124
Sbjct	6077	GGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6136
Query	6125	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6184
Sbjct	6137	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTGCCATACT	6196
Query	6185	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6244
Sbjct	6197	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6256
Query	6245	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6304
Sbjct	6257	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6316
Query	6305	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTT	6364
Sbjct	6317	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTT	6376
Query	6365	TGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6424
Sbjct	6377	TGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6436
Query	6425	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6484
Sbjct	6437	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6496
Query	6485	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6544
Sbjct	6497	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6556
Query	6545	CCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6604
Sbjct	6557 6605	CCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA GGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6616 6664
Query		GGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6676
Sbjct	6617 6665	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6724
Query	6677	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGT	6736
Sbjct Query	6725	GCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAG	6784
Sbjct	6737	GCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAG	6796
Query	6785	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	6844
Sbjct	6797	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	6856
Query	6845	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904
⊼и∈т λ	0010		0,704

Sbjct	6857	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6916
Query	6905	AAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6964
Sbjct	6917	aaggttggcgagaggtcaccccttctatggccagctcctcggctagccagctgtccgc	6976
Query	6965	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGA	7024
Sbjct	6977	tccatctctcaaggcaacttgcaccgccaaccatgactcccctgacgccgagctcataga	7036
Query	7025	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7084
Sbjct	7037	ġĠĊŦaaĊĊŦĊĊŦġŦġĠaġĠĊaġĠaġaŦġĠĠĊĠĠĊaaĊaŦĊaĊĊaġĠġŦŦĠaġŦĊaġaġaa	7096
Query	7085	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7144
Sbjct	7097	CÁAAGTGGTGÁTTCTGGÁCTCCTTCGÁTCCGCTTGTGGCÁGAGGÁGGÁTGÁGCGGGÁGGT	7156
Query	7145	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTG	7204
Sbjct	7157	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTG	7216
Query	7205	GGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7264
Sbjct	7217	GGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7276
Query	7265	ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCG	7324
Sbjct	7277	ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCG	7336
Query	7325	GAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7384
Sbjct	7337	GAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7396
Query	7385	CACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7444
Sbjct	7397	CACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7456
Query	7445	CTCTGAGCCCGCCCTTCTGGCTGccccccGACGTCGACGTTGAGTCCTATTCTTCCAT	7504
Sbjct	7457	CTCTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCAT	7516
Query	7505	GeooccottGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGGT	7564
Sbjct	7517	GCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGT	7576
Query	7565	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGG	7624
Sbjct	7577	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGACAGG	7636
Query	7625	CGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAA	7684
Sbjct	7637	CGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAA	7696
Query	7685 7697	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAG	7744 7756
Sbjct Query	7745	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7804
Sbict	7743	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7816
Query	7805	CAAGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7864
Sbjct	7817	CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC  CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7876
Query	7865	TTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7924
Sbjct	7877	TIGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7936
Query	7925	CCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7984
Sbjct	7937		7996
Query	7985	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8044
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Sbjct	7997	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8056
Query	8045	GCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCG	8104
Sbjct	8057	GCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCG	8116
Query	8105	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8164
Sbjct	8117	cgtgtgcgagaagatggccctgtacgacgtggttagcaagctccccttggccgtgatggg	8176
Query	8165	AAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTG	8224
Sbjct	8177	aagctcctacggattccaatactcaccaggacagcgggttgaattcctcgtgcaagcgtg	8236
Query	8225	GAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8284
Sbjct	8237	ĠĂĂĠŤĊĊĂĂĠĂĂĠĂĊĊĊĠĂŤĠĠĠĠŤŤĊŤĊĠŤĂŤĠĂŤĂĊĊĊĠĊŤĠŤŤŤŤĠĂĊŤĊĊĂĊĀĠŤ	8296
Query	8285	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8344
Sbjct	8297	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8356
Query	8345	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8404
Sbjct	8357	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAA	8416
Query	8405	TTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAACTAG	8464
Sbjct	8417	TTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAACTAG	8476
Query	8465	CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8524
Sbjct	8477	CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8536
Query	8525	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8584
Sbjct	8537	CCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8596
Query	8585	GGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGC	8644
Sbjct	8597	GGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGC	8656
Query	8645	ccccccggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8704
Sbjct	8657	CCCCCCGGGGACCCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC CAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8716 8764
Query	8705 8717	CAACGIGICAGICGCCCACGACGGCGCIGGAAAGAGGGICIACIACCIIACCCGIGACCC	8776
Sbjct Query	8765	TACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCTG	8824
Sbict	8777	TACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTG	8836
Query	8825	GCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8884
Sbict	8837		8896
Query	8885	TTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTA	8944
Sbjct	8897		8956
Query	8945	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9004
Sbjct	8957		9016
Query	9005	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9064
Sbjct	9017		9076
Query	9065	CCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCG	9124
Sbjct	9077		9136
Query	9125	CGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTG	9184

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Sbjct
    9137
    9185
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                                                    9244
Query
         9197
                                                    9256
Sbjct
         CGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCG
                                                    9304
    9245
Query
         ĊĠĠŤŤĠĠŤŤĊĂĊĠĠĊŤĠĠĊŤĂĊĂĠĊĠĠĠĠĠĀĠĂĊĂŤŤŤĂŤĊĂĊĀĠĊĠŤĠŤĊŤĊĂŤĠĊĊĠ
Sbjct
    9257
                                                    9316
         GCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTGCTGCAGGGGTAGGCATCTACCTCCT
    9305
                                                    9364
Query
         9317
                                                    9376
Sbjct
Query
    9365
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                                                    9424
         9377
         CCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCCTGTTTTTTT
                                                    9436
Sbjct
    9425
         tabilitate abbilitate bilicate abbilitate obtil contraction tabilitace abb
                                                    9484
Query
         9437
                                                    9496
Sbjct
         9544
Query
    9485
         9497
                                                    9556
Sbjct
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Query
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        Sbjct
    9557
                                                 9611
Score = 1118 bits (605), Expect = 0.0 Identities = 810/906 (89%), Gaps = 26/906 (2%)
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                                                   60
Sbjct
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                                                   120
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                                                   120
Sbjct
Query
    121
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        121
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    181
                                                   240
Query
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Sbjct
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        GCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAGG
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Query
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    241
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Query
    301
                                                   360
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Sbjct
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Sbjct
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Query
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Query
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Query
     713
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Sbjct
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     772
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Query
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Sbjct
     772
                                                      830
     831
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                                                      887
Query
        831
                                                      887
Sbjct
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        TCTTGC
Query
        TCCTGC
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Sbjct
     888
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>emb|AX057090.1| Sequence 5 from Patent WO0075338 Length=9611

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Score = 1.310e+04 bits (7095), Expect = 0.0
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Query
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    1797
                                                    1854
Sbjct
Query
         1907
    1849
        1855
                                                    1913
Sbjct
Query
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        1914
                                                    1970
Sbjct
        AC-CAGGCCACCGCT-GGG-CAATTGGTTCGGTTGTACCTGGATGAACTCAACTGGATTC
    1965
                                                    2021
Query
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    1971
                                                    2027
Sbjct
        2022
                                                    2071
Query
Sbjct
    2028
                                                    2082
Query
    2072
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                                                    2127
        2083
                                                    2139
Sbjct
    2128
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                                                    2187
Query
        2199
Sbjct
    2140
Query
    2188
         GGCACTATCCTTGTACCA-TCAATTACACCATATTCAAAGTCAGGATGTACGTGGGAGGG
                                                    2246
        2200
                                                    2258
Sbjct
    2247
        GTCGAGCACAGGCTGGA-AGCGGCCTGCAACTGGACGCG-GGGCGAACGCTGTG-ATC-T
                                                    2302
Query
         GTTGÁGCÁCÁGGCT-CÁCGGCTGCÁTGCÁÁTTTCÁCTCGTGGG-GÁTCG-T-TGCÁACTT
                                                    2314
    2259
Sbjct
    2303
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                                                    2357
Query
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Query
    2358
                                                    2413
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Sbjct	2371	CCAT-TTTACCTTGCTCTTACTCGGA-CCTGCCCGCCTTGTCGACTGGTCTTC-TCCA	2425
Query	2414	CCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG-CGT	2472
Sbjct	2426	CCTCCACCAAAACATCGTGGACGTACAATTCATGTATGGCCTATC-A-CCT-GCCCT	2479
Query	2473	C-C-TGGGCCATTAAG-TGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTT-GCAGACG	2526
Sbjct	2480	CACAAAATACATCGTCCGATGGGAGTGGGTAATACTCTTATTCCTGCT-CTTAGCGGACG	2538
Query	2527	CGC-GCGTCTGCTCCTGCTTGTGGATGTTAC-TCATATCCCAAGCGGAGGCGGCTTT	2584
Sbjct	2539	C-CAGGGTTTGCGCCTGCTTATGGATGCTCAT-CTTGTTGGGCCAGGCCGAAGCAGCTTT	2596
Query	2585	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2644
Sbjct	2597	GGAGAACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTT	2656
Query	2645	CCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2704
Sbjct	2657	CCTCGTGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2716
Query	2705	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATA	2764
Sbjct	2717	CGCCCTCTACGGGATGTGGCCTCTCCTCCTGCTGCTGGCGTTGCCTCAGCGGGCATA	2776
Query	2765	CGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGC	2824
Sbjct	2777	TGCACTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGC	2836
Query	2825	GCTGACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTA	2884
Sbjct	2837	gctgactctgtcgccatattacaagcgctatatcagctggtgcatgtggtggcttcagta	2896
Query	2885	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTGGGCCCCTCAACGTCCgggg	2944
Sbjct	2897	TTTTCTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCC	2956
Query	2945	ggggCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTGACAT	3004
Sbjct	2957	GGGGCGCGATGCCGTCATCTTACTCATGTGTAGTACACCCGACCCTGGTATTTGACAT	3016
Query	3005	CACCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3064
Sbjct	3017	CÁCCAAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAA	3076
Query	3065	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3124
Sbjct	3077	AGTCCCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT	3136
Query	3125	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3184
Sbjct	3137	AGCCGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTA	3196
Query	3185	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGC	3244
Sbjct	3197	TGTGTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGC	3256
Query	3245	CGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3304
Sbjct	3257	CGTGGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGC	3316
Query	3305	AGATACCGCCGCGTGCGGTGACATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCA	3364
Sbjct	3317	AGATACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCA	3376
Query	3365	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3424
Sbjct	3377	GGAGATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCC	3436
Query	3425	CATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGAC	3484
Sbjct	3437	ĊĂŢĊĂĊĠĠĊĠŢĂĊĠĊĊĊĂĠĊĂĠĂĊĠĂĠĂĠĠĠĊĊŢĊĊŢĂĠĠĠŢĠŢĂŢĂĂŢĊĂĊĊĀĠĊĊŢĠĀĊ	3496
Query	3485	TGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3544

Sbjct	3497	TGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAAC	3556
Query	3545	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3604
Sbjct	3557	CTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAG	3616
Query	3605	GACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3664
Sbjct	3617	GACCATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCT	3676
Query	3665	TGTGGGCTGGCCCGCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3724
Sbjct	3677	TGTGGGCTGGCCCGCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTC	3736
Query	3725	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAG	3784
Sbjct	3737	GGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAG	3796
Query	3785	CAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCC	3844
Sbjct	3797	caggggtagcctgctttcgccccggcccatttcctacttgaaaggctcctcggggggtcc	3856
Query	3845	GCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGG	3904
Sbjct	3857	gctgttgtgccccgcgggacacgccgtgggcctattcagggccgcggtgtgcacccgtgg	3916
Query	3905	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3964
Sbjct	3917	AGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCC	3976
Query	3965	GGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCT	4024
Sbjct	3977	GGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCT	4036
Query	4025	GCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGG	4084
Sbjct	4037	ĠĊĂŢĠĊŢĊĊĊĂĊĊĠĠĊĂĠĊĠĠŢĀĀĠĀĠĊĀĊĊĀĀĠĠŢĊĊĊĠĠĊŢĠĊĠŢĀĊĠĊĀĠĊĊĊĀĠĠĠ	4096
Query	4085	CTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACAT	4144
Sbjct	4097	ĊŦĀĊĀĀĠĠŦĠŦŦĠĠŦĠĊŦĊĀĀĊĊĊĊŦĊŦĠŦŦĠĊŦĠĊĀĀĊĠĊŦĠĠĠĊŦŦŦĠĠŦĠĊŦŦĀĊĀŦ	4156
Query	4145	GTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGG	4204
Sbjct	4157	GTCCAAGGCCCATGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGG	4216
Query	4205	CAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGCGGGTGCTCAGGAGG	4264
Sbjct	4217	CAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGG	4276
Query	4265	TGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4324
Sbjct	4277	TĠĊŢŢĀŢĠĀĊĀŢĀĀŢĀĀŢŢĠĀĊĠĀĠŢĠĊĊĀĊŢĊĊĀĊĠĠĀŢĠĊĊĀĊĀŢĊŢŢĠĠĠ	4336
Query	4325	CATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4384
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Query	4385	TGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTC	4444
Sbjct	4397	TĠĊŦAĊĊĊĊĊĊĠĠĠĊŦĊĊĠŦĊAĊŦĠŦĠŦĊĊĊAŦĊĊŦAAĊAŦĊĠĀĠĠĀĠĠŦŦĠĊŦĊŦĠŦĊ	4456
Query	4445	CACCACCGGAGAGCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGG	4504
Sbjct	4457	caccaccggagagatccccttttacggcaaggctatccccttcgaggtgatcaaggggg	4516
Query	4505	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4564
Sbjct	4517	AAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGT	4576
Query	4565	CGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4624
Sbjct	4577	cgcattgggcatcaatgccgtggcctactaccgcggtcttgacgtgtctgtc	4636
Query	4625	CAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4684

Sbjct	4637	CAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTT	4696
Query	4685	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCC	4744
Sbjct	4697	CGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCC	4756
Query	4745	TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4804
Sbjct	4757	TACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCG	4816
Query	4805	GGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4864
Sbjct	4817	GGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCC	4876
Query	4865	CTCCGGCATGTTCGACTCGTCCGTCCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4924
Sbjct	4877	CTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTA	4936
Query	4925	TGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4984
Sbjct	4937	TGAGCTCACGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCT	4996
Query	4985	TCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5044
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Query	5045	AGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGC	5104
Sbjct	5057	agatgcccactttttatcccagacaaagcagagtggggagaactttccttacctggtagc	5116
Query	5105	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTG	5164
Sbjct	5117	GTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTG	5176
Query	5165	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5224
Sbjct	5177	GAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACT	5236
Query	5225	GGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATG	5284
Sbjct	5237	GGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATG	5296
Query	5285	CATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGC	5344
Sbjct	5297	CATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGC	5356
Query	5345	TGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTT	5404
Sbjct	5357	TĠĊŢĊŢĠĠĊĠĊĠŢĀŢŢĠĊĊŢĠŢĊĂĂĊĀĠĠĊŢĠĊĠŢĠĠŢĊĀŢĀĠŢĠĠĊĀĠĠĀŢĊĠŢĊŢŢ	5416
Query	5405	GTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGAT	5464
Sbjct	5417	ĠŤĊĊĠĠĠĂĂĠĊĊĠĠĊĂĂŤŤĂŤĂĊĊŤĠĂĊĂĠĠĠĀĠĠŤŤĊŤĊŤĂĊĊĂĠĠĀĠŤŤĊĠĂŤĠĀĠĀŤ	5476
Query	5465	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5524
Sbjct	5477	GGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTT	5536
Query	5525	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5584
Sbjct	5537	CAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCC	5596
Query	5585	TGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTT	5644
Sbjct	5597	tgctgtccagaccaactggcagaaactcgaggtcttttgggcgaagcacatgtggaattt	5656
Query	5645	CATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5704
Sbjct	5657	CATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGC	5716
Query	5705	TTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCT	5764
Sbjct	5717	ticattgatggcttttacagctgccgtcaccagcccactaaccactggccaaaccctcct	5776
Query	5765	CTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5824

Sbjct	5777	CTTCAACATATTGGGGGGGTGGGTGGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGC	5836
Query	5825	CTTTGTGGGTGCTGGCCTAGCTGGCCCCCATCGGCAGCGTTGGACTGGGGAAGGTCCT	5884
Sbjct	5837		5896
Query	5885	CGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5944
Sbjct	5897	CGTGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGAT	5956
Query	5945	CATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTC	6004
Sbjct	5957	CATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTC	6016
Query	6005	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6064
Sbjct	6017	GCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCC	6076
Query	6065	GGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6124
Sbjct	6077	GGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCA	6136
Query	6125	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACT	6184
Sbjct	6137	TGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTGCCATACT	6196
Query	6185	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6244
Sbjct	6197	CAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTG	6256
Query	6245	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6304
Sbjct	6257	TACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCT	6316
Query	6305	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTT	6364
Sbjct	6317	GAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTT	6376
Query	6365	TGTGTCCTGCCAGCGCGGTATAGGGGGGGTCTGGCGAGGAGACGCATTATGCACACTCG	6424
Sbjct	6377	TGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCG	6436
Query	6425	CTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGG	6484
Sbjct	6437	ĊŤĠĊĊĂĊŤĠŤĠĠĂĠĊŤĠĂĠĂŤĊĂĊŤĠĠĂĊĂŤĠŤĊĂĂĂĂĂĊĠĠĠĂĊĠĂŤĠĂĠĠĂŤĊĠŤĊĠĠ	6496
Query	6485	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6544
Sbjct	6497	TCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGG	6556
Query	6545	CCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6604
Sbjct	6557	CCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGA	6616
Query	6605	GGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6664
Sbjct	6617	GGAATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACTACTGA	6676
Query	6665	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6724
Sbjct	6677	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6736
Query	6725	GCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAG	6784
Sbjct	6737	ġĊĠĊĊŦĂĊĂĊĀĠĠŤŦŤĠĊĠĊĊĊĊŤŤĠĊĀĀĠĊĊĊŤŤĠĊŤĠĊĠĠĠĀĠĠĀĠĠŦĀŦĊĀŤŤĊĀĠ	6796
Query	6785	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	6844
Sbjct	6797	agtaggactccacgagtacccggtggggtcgcaattaccttgcgagcccgaaccggacgt	6856
Query	6845	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904
Sbjct	6857	agccgtgttgacgtccatgctcactgatcccttcccatataacagcagaggcggccggag	6916
Query	6905	AAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6964

<b>61</b>	6645		60.00
Sbjct	6917	AAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGC	6976
Query	6965	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGA	7024
Sbjct	6977	TCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGA	7036
Query	7025	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7084
Sbjct	7037	GGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAA	7096
Query	7085	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7144
Sbjct	7097	CAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGT	7156
Query	7145	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTG	7204
Sbjct	7157	CTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTG	7216
Query	7205	GGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC	7264
Sbjct	7217 7265	GGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACC ACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCG	7276 7324
Query			7324
Sbjct	7277 7325	ACCTGTGGTCCATGGCTGCCCGCTACCACCGTCCACGGTCCCCTCCTGTGCCTCCGCCTCG  GAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7384
Query Sbjct	7323	GAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGC	7396
Query	7385	CACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATC	7444
Sbjct	7397	CACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCACAATACGACAACATC  CACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACAACATC	7456
Query	7445	CTCTGAGCCCGCCCTTCTGGCTGGGGGGGACTCCGACGTTGAGTCCTATTCTTCCAT	7504
Sbjct	7457		7516
Query	7505	GaaaaaatGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGT	7564
Sbjct	7517		7576
Query	7565	CAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTCCTGGACAGG	7624
Sbjct	7577		7636
Query	7625	CGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAA	7684
Sbjct	7637		7696
Query	7685	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAG	7744
Sbjct	7697	CTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAG	7756
Query	7745	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7804
Sbjct	7757	GCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCT	7816
Query	7805	CAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7864
Sbjct	7817	CAAGGAGGTCAAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGC	7876
Query	7865	TTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7924
Sbjct	7877	TTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGT	7936
Query	7925	CCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7984
Sbjct	7937	CCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGA	7996
Query	7985	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8044
Sbjct	7997	AGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCA	8056
Query	8045	GCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCG	8104

Sbjct	8057	GCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCG	8116
Query	8105	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8164
Sbjct	8117	CGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGG	8176
Query	8165	AAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTG	8224
Sbjct	8177	AAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTG	8236
Query	8225	GAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8284
Sbjct	8237	GAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGT	8296
Query	8285	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8344
Sbjct	8297	CACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCA	8356
Query	8345	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAA	8404
Sbjct	8357	AGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAA	8416
Query	8405	TTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGCGTACTGACAACTAG	8464
Sbjct	8417	TTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAACTAG	8476
Query	8465	CTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCT	8524
Sbjct	8477	ctgtggtaacaccctcacttgctacatcaaggcccgggcagcctgtcgagccgcagggct	8536
Query	8525	CCAGGACTGCACCATGCTCGTGTGGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGG	8584
Sbjct	8537	ccaggactgcaccatgctcgtgtgtggcgacgacttagtcgttatctgtgaaagtgcgg	8596
Query	8585	GGTCCAGGAGGCCGGCGAGCCTGAGAGCCTTCACGAGGCTATGACCAGGTACTCCGC	8644
Sbjct	8597	ggtccaggaggacgcgagcctgagagccttcacggaggctatgaccaggtactccgc	8656
Query	8645	ccccccggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8704
Sbjct	8657	CCCCCCGGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTC	8716
Query	8705	CAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8764
Sbjct	8717	CAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCC	8776
Query	8765	TACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTG	8824
Sbjct	8777	TÁCAÁCCCCCTCGCGÁGÁGCCGCGTGGGÁGÁCAGCÁAGACACTCCÁGTCAÁTTCCTG	8836
Query	8825	GCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCA	8884
Sbjct	8837	ĠĊŦŔĠĠĊŔŔĊŔŦŔŔŦĊŔŦĠŦŦŦĠĊĊĊĊŔĊŔĊŦĠŦĠĠĠĊĠŔĠĠŔŦĠŔŦŔĊŦĠŔŦĠŔĊĊŔ	8896
Query	8885	TTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTA	8944
Sbjct	8897	TTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTA	8956
Query	8945	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9004
Sbjct	8957	CGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGG	9016
Query	9005	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9064
Sbjct	9017	CCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATG	9076
Query	9065	CCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCG	9124
Sbjct	9077	cctcagaaaacttggggtcccgccttgcgagcttggagacaccgggcccggagcgtccg	9136
Query	9125	CGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTG	9184
Sbjct	9137	cgctaggcttctgtccagaggaggcagggctgctatatgtggcaagtacctcttcaactg	9196
Query	9185	GGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGGC	9244

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                                                     9484
Query
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                                                     9556
Sbjct
     9545
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Sbjct
Score = 1062 bits (575), Expect = 0.0 Identities = 800/906 (88\%), Gaps = 26/906 (2\%)
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                                                    180
Sbjct
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        241
                                                    300
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                                                    360
Query
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Sbjct
     301
                                                    360
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                                                    420
Query
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        Sbjct
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     421
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Query
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     481
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                                                    596
Sbjct
     597
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Query
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Query
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    656
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                                                  771
Query
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Sbjct
Query
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        772
                                                  830
Sbjct
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                                                  887
Query
        Sbjct
    831
                                                  887
    888
        TCTTGC
             893
Query
          \perp
        İĊCİĠĊ
    888
             893
Sbjct
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## >gb|AR916115.1| Sequence 7 from patent US 7084266 Length=9611

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Score = 1.263e+04 bits (6838), Expect = 0.0
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Query
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Sbjct
Query
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         Sbjct
     2804
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                                                     2911
Query
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     2864
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Sbjct
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Query
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     2924
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Sbjct
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                                                     3043
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Query
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Sbjct
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                                                     3151
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                                                     3211
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Sbjct
    3212
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                                                     3271
Query
         3224
                                                     3283
Sbjct
Query
     3272
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                                                     3331
         3284
         CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCAT
                                                     3343
Sbjct
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     3332
                                                     3391
Query
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                                                     3403
Sbjct
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Query	3392	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAG	3451
Sbjct	3404	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAG	3463
Query	3452	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3511
Sbjct	3464	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3523
Query	3512 3524	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGT	3571 3583
Sbjct Query	3572	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGT  ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3631
Sbict	3584	AIGCIGGACIGICIACCACGGGGCCGGAACGAGGACCAICGCAICACCAAGGGICCIGI	3643
Query	3632	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTC	3691
Sbjct	3644		3703
Query	3692	CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3751
Sbjct	3704		3763
Query	3752	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCC	3811
Sbjct	3764	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCC	3823
Query	3812	CATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3871
Sbjct	3824	ĊĂŦŦŦĊĊŦĂĊŦŦĠĂĂĂĠĠĊŦĊĊŦĊĠĠĠĠĠŦĊĊĠĊŦĠŦŦĠŦĠĊĊĊĠĊĠĠĠĂĊĂĊĠĊĊĠŦ	3883
Query	3872	GGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3931
Sbjct	3884	GGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3943
Query	3932 3944	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACTCCTCTCCACC	3991 4003
Sbjct Query	3992	AGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAG	4003
Sbjct	4004		4063
Query	4052	CACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4111
Sbjct	4064	CACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4123
Query	4112	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4171
Sbjct	4124	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4183
Query	4172	TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4231
Sbjct	4184	TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4243
Query Sbjct	4232 4244	CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATATTTGTGACGA	4291 4303
Query	4292	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4351
Sbjct	4304		4363
Query	4352	GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGT	4411
Sbjct	4364		4423
Query	4412	GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGG	4471
Sbjct	4424		4483
Query	4472	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4531
Sbjct	4484	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4543

Query	4532	GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA	4591
Sbjct	4544	gaagaagtgcgacgagctcgccgcgaagctggtcgcattgggcatcaatgccgtggccta	4603
Query	4592	CTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTCGTCGTCGAC	4651
Sbjct	4604	ĊŦĂĊĊĠĊĠĠŦĊŦŦĠĂĊĠŦĠŦĊŦĠŦĊĀŦĊĊĊĠĀĊĊĀĠĊĠĠĊĠĀŦĠŦŦĠŦĊĠŦĊĠŦĠŦĊĠĀĊ	4663
Query	4652	CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4711
Sbjct	4664	CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4723
Query	4712	TGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAGACAACCACGCT	4771
Sbjct	4724	TGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAGACAACCACGCT	4783
Query	4772	CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG	4831
Sbjct	4784	CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGG	4843
Query	4832	CATCTATAGATTTGTGGCACCGGGGAGCGCCCCTCCGGCATGTTCGACTCGTCCT	4891
Sbjct	4844	CATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGACTCGTCCT	4903
Query	4892	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4951
Sbjct	4904	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4963
Query	4952	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5011
Sbjct	4964	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5023
Query	5012	TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5071
Sbjct	5024 5072	TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5083 5131
Query Sbjct	5072	GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5143
Query	5132	TCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC	5191
Sbjct	5144		5203
Ouerv	5192	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT	5251
Sbjct	5204		5263
Query	5252	GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5311
Sbict	5264		5323
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Sbjct	5324		5383
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Sbjct	5444		5503
Query	5492	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5551
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Sbjct	5564		5623
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Sbjct	5624	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACAATACTTGGCGGG	5683

Query	5672	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5731
Sbjct	5684	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5743
Query	5732	CACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTggggggTGGGTGGC	5791
Sbjct	5744	caccagcccactaaccactggccaaaccctcctcttcaacatattgggggggg	5803
Query	5792	TGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5851
Sbjct	5804	rácccaáctcácccccágtáccáctactáccttrátágagtáctágcctaáctágcác	5863
Query	5852	CGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGC	5911
Sbjct	5864	cgccatcggcagcgttggactggggaaggtcctcgtggacattcttgcagggtatggcgc	5923
Query	5912	GGGCGTGGCGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGA	5971
Sbjct	5924	GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGA	5983
Query	5972	GGACCTGGTCAATCTGCCGCCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGT	6031
Sbjct	5984	GGACCTGGTCAATCTGCTGCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGT	6043
Query	6032	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6103
Query	6092	CCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGA	6151
Sbjct	6104	CCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGA	6163
Query	6152	GAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6211
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Sbjct	6224	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCT	6283
Query	6272	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6331
Sbjct	6284	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6343
Query	6332	CAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGG	6391
Sbjct	6344	caagctcatgccacaactgcctgggattccctttgtgtctgccagcgcgggtatagggg	6403
Query	6392	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6451
Sbjct	6404	ggtctggcgaggagacggcattatgcacactcgctgccactgtggagctgagatcactgg	6463
Query	6452	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464	acatgtcaaaaacgggacgatgaggatcgtcgtcctaggacctgcaggaacatgtggag	6523
Query	6512	TGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAA	6571
Sbjct	6524	rgggacgriccccarraacgccracaccacgggccccrgracrccccrrccrgcgccgaa	6583
Query	6572	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6631
Sbjct	6584	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6643
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Sbjct	6644	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6703
Query	6692	ATCGCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6751
Sbjct	6704	ATCGCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6763
Query	6752	CAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGG	6811
Sbjct	6764	CAAGCCCTTGCTGCGGGAGGAGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGG	6823

Query	6812	GTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6871
Sbjct	6824	grcgcaartacctrgcgagcccgaaccggacgragccgrgrrgacgrccargctcacrga	6883
Query	6872	TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTC	6931
Sbjct	6884	ŤĊĊĊŤĊĊĊĂŤÄŤĂĂĊĀĠĊĂĠĀĠĠĊĠĠĠĊĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠĠ	6943
Query	6932	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	6991
Sbjct	6944	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	7003
Query	6992	CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7051
Sbjct	7004	CAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7063
Query	7052	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7111
Sbjct	7064	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7123
Query	7112	TCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7171
Sbjct	7124	TCCGCTTGTGGCAGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7183
Query	7172	GTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGGCCGGACTACAACCCCCCGCT	7231
Sbjct	7184	GTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGGGC	7243
Query	7232	AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACC	7291
Sbjct	7244	AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACC	7303
Query	7292	ACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGA	7351
Sbjct	7304	ACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGA	7363
Query	7352	ATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAAC	7411
Sbjct	7364	ATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAAC	7423
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Sbjct	7424	TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCC	7483
Query	7472	coogactccgacgttgagtcctattcttccatgoocccottggaggggagcctgggga	7531
Sbjct	7484 7532	CCCCGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGA  TCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7543 7591
Query	7544	TCCGGATCTCAGCGACGGGTCATGGTCGACGGTAGTAGTGGGGGCCGACACGGAAGATGT	7603
Sbjct Query	7592	CGTGTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGA	7651
Sbjct	7604	CGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGA	7663
Query	7652	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT	7711
Sbjct	7664		7723
Query	7712	GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT	7771
Sbjct	7724		7783
Query	7772	GCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAA	7831
Sbjct	7784		7843
Query	7832	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGC	7891
Sbjct	7844		7903
Query	7892	CAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGC	7951
Sbjct	7904		7963
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Query	7952	CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8011
Sbjct	7964	ccacatcaactccgtgtggaaagaccttctggaagacagtgtaacaccaatagacactac	8023
Query	8012	CATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGGTCGTAAGCCAGC	8071
Sbjct	8024	CÁTCATGGCCAAGAACGAGGTTTTCTGCGTTCAGCCTGAGAAGGGGGGGTCGTAAGCCAGC	8083
Query	8072	TCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGA	8131
Sbjct	8084	TCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGA	8143
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Sbjct	8144	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8203
Query	8192	AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8251
Sbjct	8204	AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8263
Query	8252	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8311
Sbjct	8264	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8323
Query	8312	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8371
Sbjct	8324	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8383
Query	8372	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCG	8431
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Query	8432	CAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACAT	8491
Sbjct	8444	CAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACAT	8503
Query	8492	CAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGG	8551
Sbjct	8504	CAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8563
Query	8552	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8611
Sbjct	8564	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8623
Query	8612	AGCCTTCACGGAGGCTATGACCAGGTACTCCGeeccaceeggggaceeccaCAACCAGA	8671
Sbjct	8624	AGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCGGGGGACCCCCCACAACCAGA	8683
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Sbjct	8684	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGC	8743
Query	8732	TGGAAAGAGGGTCTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG	8791
Sbjct	8744	TGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG	8803
Query	8792	GGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCC	8851
Sbjct	8804	GGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCC	8863
Query	8852	CACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGA	8911
Sbjct	8864	CACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGA	8923
Query	8912	TCAGCTTGAACAGGCTCTTAACTGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACT	8971
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Query	9032	CTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTT	9091
Sbjct	9044	CTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTT	9103

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## >gb|AR916113.1| Sequence 3 from patent US 7084266 Length=9611

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Query	3272	CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCAT	3331
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Query	3332	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3391
Sbjct	3344	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3403
Query	3392	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAG	3451
Sbjct	3404	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAG	3463
Query	3452	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3511
Sbjct	3464	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3523
Query	3512	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGT	3571
Sbjct	3524	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGT	3583
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Sbjct	3584	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3643
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Sbjct	3704	CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3763
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Sbjct	3764	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCC	3823
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Sbjct	3824	CATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3883
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Sbjct	3944	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACTCCTCTCCACC	4003
Query Sbjct	3992 4004	AGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAG	4051 4063
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Sbjct	4064		4123
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- Sbjct	4184		4243
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Sbjct	4244		4303
Query	4292	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4351
Sbjct	4304		4363
Query	4352	GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGT	4411
Sbjct	4364		4423

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Query	4472	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4531
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Sbjct	4544	GAAGAAGTGCGACGAGCTCGCCGCAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA	4603
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Sbjct	4664	CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4723
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Sbjct	4724	TGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAGACAACCACGCT	4783
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Query	4892	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4951
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Sbjct	4964	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5023
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Query	5372	AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5431
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Query	5852	CGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGC	5911
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Sbjct	5924	GGGCGTGGCGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGA	5983
Query	5972	GGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGT	6031
Sbjct	5984	GGACCTGGTCAATCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGT	6043
Query	6032	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6103
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Sbjct	6464		6523
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Sbjct	6524		6583
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Sbjct	6644		6703
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Query	6692	ATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6751
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Sbjct	6824		6883
Query	6872	TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTC	6931
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Sbjct	6944		7003
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Sbjct	7484		7543
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Sbjct	7724		7783
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Sbjct	7784	GCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAA	7843

Query	7832	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGC	7891
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Query	8132	CGTGGTTAGCAAGCTCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8191
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Query	8192	AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8251
Sbjct	8204	AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8263
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Sbjct	8264	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8323
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Sbjct	8564	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8623
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Sbjct	8624	AGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCGGGGGACCCCCCACAACCAGA	8683
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Sbjct	8684	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGC	8743
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Sbjct	8864	CACACTGTGGGCGAGGATGATACTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGA	8923
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Query
        9404
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Query
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Sbjct
    9572
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Query
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Sbjct
    9584
                           9611
Score = 1118 bits (605),
               Expect = 0.0
Identities = 810/906 (89%), Gaps = 26/906 (2%)
Strand=Plus/Plus
       GCCAGCCCCTGATGGGGGCGACACTCCACCATGAATCACTCCCCTGTGAGGAACTACTG
Query
    1
                                              60
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Sbjct
    61
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Sbjct
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Sbjct
     656
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     888
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>emb|AX057092.1| Sequence 7 from Patent WO0075338 Length=9611

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     2744
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Sbjct
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Sbjct
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Query
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                                                         2971
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         3044
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Sbjct
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Ouerv
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Sbjct	3104	CCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAGGTCATTACGTGCAAATGGC	3163
Query	3152	CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG	3211
Sbjct	3164	CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG	3223
Query	3212	AGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTC	3271
Sbjct	3224	agactgggcgcacaacggcctgcgagatctggccgtggctgtggaaccagtcgtcttctc	3283
Query	3272	CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCAT	3331
Sbjct	3284	ĊĊĠAATĠĠAĠAĊĊĀAĠĊŦĊĀŤĊĀĊĠŤĠĠĠĠĠĠĊĀĠAŦĀĊĊĠĊĊĠĊĠŤĠĊĠĠŤĠĀĊĀŤĊĀŤ	3343
Query	3332	CAACGGCTTGCCCGTCTCGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3391
Sbjct	3344	ĊAAĊĠĠĊŤŤĠĊĊĊĠŤĊŤĊŤĠĊĊĊĠŤAĠĠĠĠĊĊĀĠĠĀĠĀŤĀĊŤĠĊŤŤĠĠĠĊĊĀĠĊĊĠĀĊĠĠ	3403
Query	3392	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAG	3451
Sbjct	3404	aatggtctccaaggggtggaggttgctggcgcccatcacggcgtacgcccagacgag	3463
Query	3452	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3511
Sbjct	3464	aggcctcctagggtgtataatcaccagcctgactggccggacaaaaaccaagtggagg	3523
Query	3512	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGT	3571
Sbjct	3524	tgaggtccagatcgtgtcaactgctacccaaaccttcctggcaacgtgcatcaatggggt	3583
Query	3572	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3631
Sbjct	3584	atgctggactgtctaccacggggccggaacgaggaccatcgcatcacccaagggtcctgt	3643
Query	3632	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTC	3691
Sbjct	3644	ĊATCCAĠATĠTATACCAATĠTĠĠACCAAĠACCTTĠTĠĠĠCTĠĠCCCĠCTCCTCAAĠĠTTC	3703
Query	3692	CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3751
Sbjct	3704	ccgctcattgacaccctgtacctgcgctcctcggacctttacctggtcacgaggcacgc	3763
Query	3752	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCC	3811
Sbjct	3764	ĊĠĂŢĠŢĊĀŢŢĊĊĠŢĠĊĠĊĊĠĠĊĠĀĠĠŢĠĀŢĀĠĊĀĠĠĠŢĀĠĊĊŢĠĊŢŢŢĊĠĊĊĊĠĠĊĊ	3823
Query	3812	CATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3871
Sbjct	3824	CATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3883
Query	3872	GGGCCTATTCAGGGCCGCGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3931
Sbjct	3884	ġĠĠĊĊŦĂŦŦĊĀĠĠĠĊĊĠĊĠĠŦĠŦĠĊĀĊĊĊĠŦĠĠĀĠŦĠĠĊŦĀĀĀĠĊĠĠŦĠĠĀĊŦŦŦĂŦĊĊĊ	3943
Query	3932	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACTCCTCTCCACC	3991
Sbjct	3944	tigtiggagaacctagggacaaccatgagatccccggtigticacggacaactcctccacc	4003
Query	3992	AGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAG	4051
Sbjct	4004	agcagtgccccagagcttccaggtgcccacctgcatgctcccaccggcagcggtaagag	4063
Query	4052	CACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4111
Sbjct	4064	caccaaggreecegectgegracgeageceaggecracaaggreeriggreeceaacecere	4123
Query	4112	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4171
Sbjct	4124	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4183
Query	4172	TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4231
Sbjct	4184	tatcaggaccggggtgagaacaattaccactggcagccccatcacgtactccacctacgg	4243
Query	4232	CAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	4291

Sbjct	4244	CAAGTTCCTTGCCGACGGCGGTGCTCAGGAGGTGCTTATGACATAATAATTTGTGACGA	4303
Query	4292	GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4351
Sbjct	4304	GTGCCACTCCACGGATGCCACATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA	4363
Query	4352	GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGT	4411
Sbjct	4364	GACTGCGGGGGCGAGACTGTTGTGCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGT	4423
Query	4412	GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGG	4471
Sbjct	4424	GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGG	4483
Query	4472	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4531
Sbjct	4484	CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	4543
Query	4532	GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA	4591
Sbjct	4544	GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA	4603
Query	4592	CTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTCGTCGTCGAC	4651
Sbjct	4604	ctaccdcdgtcttdacgtdtctdtcatcccdaccadcddcdatgttdtcdtcdtcdac	4663
Query	4652	CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG	4711
Sbjct	4664	cgatgctctcatgactggctttaccggcgacttcgactctgtgatagactgcaacacgtg	4723
Query	4712	TGTCACTCAGACAGTCGATTTCAGCCTTGACCCTTACCATTGAGACAACCACGCT	4771
Sbjct	4724	TGTCACTCAGACAGTCGATTTCAGCCTTGACCCTTACCATTGAGACAACCACGCT	4783
Query	4772	CCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGG	4831
Sbjct	4784	ccccaggatgctgtctccaggactcaacgccgggcaggactggcaggggaagccagg	4843
Query	4832	CATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGACTCGTCCT	4891
Sbjct	4844	catctatagatttgtggcaccgggggagcgcccttccggcatgttcgactcgtcct	4903
Query	4892	CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	4951
Sbjct	4904	ctgtgagtgctatgacgcgggctgtgcttggtatgagctcacgcccgagactacagt	4963
Query	4952	TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5011
Sbjct	4964	TAGGCTACGAGCGTACATGAACACCCCGGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	5023
Query	5012	TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA	5071
Sbjct	5024	tigggagggcgtcittacgggcctcactcatatagatgcccactitttatcccagacaaa	5083
Query	5072	GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC	5131
Sbjct	5084	ĠĊĀĠĀĠŦĠĠĠĠĀĠĀĀĊŦŦŦĊĊŦŦĀĊĊŦĠĠŦĀĠĊĠŦĀĊĊĀĀĠĊĊĀĊĊĠŦĠŦĠĊĠĊŦĀĠĠĠĊ	5143
Query	5132	TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC	5191
Sbjct	5144	tcaagcccctccccatcgtggaccagatgtggaagtgtttgatccgccttaaacccac	5203
Query	5192	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT	5251
Sbjct	5204	CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT	5263
Query	5252	GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5311
Sbjct	5264	GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5323
Query	5312	GAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCGGCCGCGTATTGCCTGTCAAC	5371
Sbjct	5324	GAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAAC	5383
Query	5372	AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5431

Sbjct	5384	AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5443
Query	5432	CAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5491
Sbjct	5444	CAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5503
Query	5492	CATCGAGCAAGGGATGATCCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5551
Sbjct	5504	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5563
Query	5552	GACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAAACT	5611
Sbjct	5564	GACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAAACT	5623
Query	5612	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACAATACTTGGCGGG	5671
Sbjct	5624	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACAATACTTGGCGGG	5683
Query	5672	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5731
Sbjct	5684	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5743
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Sbjct	5744	CACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTGGGGGGGTGGGT	5803
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Sbjct	5804	TGCCCAGCTCGCCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5863
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Sbjct	5864	CGCCATCGGCAGCGTTGGACTGGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGC	5923
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Sbjct	5924	GGGCGTGGCGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGA	5983
Query	5972	GGACCTGGTCAATCTGCCGCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGT	6031
Sbjct	5984	GGACCTGGTCAATCTGCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGT	6043
Query	6032	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6103
Query	6092	CCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGA	6151
Sbjct	6104	ccggctaatagccttcgcctcccgggggaaccatgtttcccccacgcactacgtgccgga	6163
Query	6152	GAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6211
Sbjct	6164	GAGCGATGCAGCCGCGCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6223
Query	6212	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCT	6271
Sbjct	6224	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCT	6283
Query	6272	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6331
Sbjct	6284	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6343
Query	6332	CAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGG	6391
Sbjct	6344	CAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGG	6403
Query	6392	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6451
Sbjct	6404	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6463
Query	6452	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAG	6523
Query	6512	TGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAA	6571

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Query	6572	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6631
Sbjct	6584	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6643
Query	6632	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6691
Sbjct	6644	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6703
Query	6692	ATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTTACACAGGTTTGCGCCCCCTTG	6751
Sbjct	6704	ATCGCCCGAATTTTTCACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6763
Query	6752	CAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGG	6811
Sbjct	6764	CÁAGCCCTTGCTGCGGGAGGAGGTÁTCÁTTCÁGAGTÁGGÁCTCCÁCGAGTÁCCCGGTGGG	6823
Query	6812	GTCGCAATTACCTTGCGAGCCCGAACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGA	6871
Sbjct	6824	grcgcaartaccirgcgagcccgaaccggacgragccgrgrrgacgrccargcrcacrga	6883
Query	6872	TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTC	6931
Sbjct	6884	TCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAGGTTGGCGAGAGGGTCACCCCTTC	6943
Query	6932	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	6991
Sbjct	6944	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	7003
Query	6992	CAACCATGACTCCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7051
Sbjct	7004	CAACCATGACTCCCTGACGCCGAGCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGAT	7063
Query	7052	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7111
Sbjct	7064		7123
Query	7112	TCCGCTTGTGGCAGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7171
Sbjct	7124	TCCGCTTGTGGCAGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7183
Query	7172	GTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGCGGCCGGACTACAACCCCCCGCT	7231
Sbjct	7184	GTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGGCGGCCGGACTACAACCCCCCGCT	7243
Query	7232	AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACC	7291
Sbjct	7244	AGTAGAGACGTGGAAAAAGCCTGACTACGAACCACCTGTGGTCCATGGCTGCCCGCTACC	7303
Query	7292	ACCTCCACGGTCCCCTCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGA	7351
Sbjct	7304	ACCTCCACGGTCCCCTCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGA	7363
Query	7352	ATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAAC	7411
Sbjct	7364	ATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAAC	7423
Query	7412	TTCCGGCATTACGGCCACAACACACCTCTGAGCCCGCCCCTTCTGGCTGccc	7471
Sbjct	7424	TTCCGGCATTACGGCCGACAATACGACAACATCCTCTGAGCCCGCCC	7483
Query	7472	deedGACTCCGACGTTGAGTCCTATTCTTCCATGeeddadTGGAGGGGGAGCCTGGGGA	7531
Sbjct	7484		7543
Query	7532	TCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7591
Sbjct	7544		7603
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Sbjct	7604		7663
Query	7652	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT	7711

Sbjct	7664	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT	7723
	7712	GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAGTCACATTTGACAGACT	7771
Query Sbjct	7724	GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGGTCACATTTGACAGACT GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT	7783
	7772	GCAAGTTCTGGACAGCCATTACCAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAA	7831
Query Sbjct	7784		7843
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Sbjct	7844		7903
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Sbjct	7904		7963
Query	7952	CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8011
Sbjct	7964		8023
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Sbjct	8024		8083
Query	8072	TCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGA	8131
Sbjct	8084		8143
Query	8132	CGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACC	8191
Sbjct	8144		8203
Query	8192	AGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTT	8251
Sbjct	8204		8263
Query	8252	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8311
Sbjct	8264		8323
Query	8312	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8371
Sbjct	8324	GGCAATTTACCAATGTTGTGACCTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCAC	8383
Query	8372	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCG	8431
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Query	8432	CAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACAT	8491
Sbjct	8444	CAGGTGCCGCGCGAGCGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACAT	8503
Query	8492	CAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGGG	8551
Sbjct	8504	CAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTG	8563
Query	8552	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGGGGGCCTGAG	8611
Sbjct	8564	CGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAG	8623
Query	8612	AGCCTTCACGGAGGCTATGACCAGGTACTCCGcccccccggggacccccAACCAGA	8671
Sbjct	8624	AGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCGGGGGACCCCCACAACCAGA	8683
Query	8672	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCC	8731
Sbjct	8684	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGC	8743
Query	8732	TGGAAAGAGGGTCTACTACCTTACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTG	8791
Sbjct	8744	rggaaagagggretactaccttacccgrgaccctacaacccccctcgcgagagccgcgrg	8803
Query	8792	GGAGACAGCAAGACACTCCAGTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCC	8851

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Query
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Sbjct
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Sbjct
    9452
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Query
        9464
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Query
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Sbjct
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Sbjct
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Query
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Query
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Query
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Query
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Sbjct
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>emb|AX057088.1| Sequence 3 from Patent WO0075338 Length=9611

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                                                          2791
Query
         2744
                                                          2803
Sbjct
Query
     2792
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                                                          2851
         2804
                                                          2863
Sbjct
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                                                          2911
     2852
Query
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                                                          2923
     2864
Sbjct
         2912
                                                          2971
Query
Sbjct
     2924
                                                          2983
Query
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Query	3032	ACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTCCCCTACTTCGTGCGCGTTCAAGG	3091
Sbjct	3044		3103
Query	3092	CCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATAGCCGGAGGTCATTACGTGCAAATGGC	3151
Sbjct	3104		3163
Query	3152	CATCATCAAGTTAGGGGCGCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG	3211
Sbjct	3164	CATCATCAAGTTAGGGGCCCTTACTGGCACCTATGTGTATAACCATCTCACCCCTCTTCG	3223
Query	3212	AGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCAGTCGTCTCTC	3271
Sbjct	3224	AGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGTGGCTGTGGAACCAGTCGTCTTCTC	3283
Query	3272	CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCAT	3331
Sbjct	3284	CCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGATACCGCCGCGTGCGGTGACATCAT	3343
Query	3332	CAACGGCTTGCCCGTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3391
Sbjct	3344	CAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGAGATACTGCTTGGGCCAGCCGACGG	3403
Query	3392	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAG	3451
Sbjct	3404	AATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCATCACGGCGTACGCCCAGCAGACGAG	3463
Query	3452	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3511
Sbjct	3464	AGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGGCCGGGACAAAAACCAAGTGGAGGG	3523
Query	3512 3524	TGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTTCCTGGCAACGTGCATCAATGGGGT	3571 3583
Sbjct Query	3572	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3631
Sbjct	3584	ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT ATGCTGGACTGTCTACCACGGGGCCGGAACGAGGACCATCGCATCACCCAAGGGTCCTGT	3643
Query	3632	CATCCAGATGTATACCAATGTGGACCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTC	3691
Sbjct	3644		3703
Query	3692	CCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGC	3751
Sbjct	3704		3763
Query	3752	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCC	3811
Sbjct	3764	CGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCC	3823
Query	3812	CATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3871
Sbjct	3824	CATTTCCTACTTGAAAGGCTCCTCGGGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGT	3883
Query	3872	GGGCCTATTCAGGGCCGCGTGTGCACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCC	3931
Sbjct	3884	ĠĠĠĊĊŤĂŤŤĊĂĠĠĠĊĊĠĊĠĠŦĠŦĠĊĂĊĊĊĠŦĠĠĂĠŦĠĠĊŤĂĂĂĠĊĠĠŦĠĠĂĊŦŦŤĂŤĊĊĊ	3943
Query	3932	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACTCCTCTCCACC	3991
Sbjct	3944	TGTGGAGAACCTAGGGACAACCATGAGATCCCCGGTGTTCACGGACAACTCCTCTCCACC	4003
Query	3992	AGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAG	4051
Sbjct	4004	AGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAG	4063
Query	4052	CACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4111
Sbjct	4064	CACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTC	4123
Query	4112	TGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAA	4171

Query         4172         TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGGCCCATCACGTACTCCACCTACGG         4231           Sbjet         4184         TATCAGGACCGGGTGAGAACAATTACCACTGGCAGGCCCATCACGTACTCCACCTACGG         4243           Query         4232         CAAGTTCCTTGCCGACGGCGGGTGAGAACAATTACCACTGGCAAGCCCAATCAGTACTCATCACTCTTGACAA         4291           Sbjet         4244         CAAGTTCCTTGCCGACGGCGGGTGCTAGGGGATGGCAATTATAATATTTGTGACAA         4303           Query         4302         GTGCCACTCCACGGATGCCACATCATCTTTGGGCATCGGCACTGCTCTTGACCAAGAGAA         4351           Sbjet         4304         GGCCACTCCACGGATGCCACATCCATCTTTGGGCATCGGCACTGCTTGACCATGACAAGAAA         4361           Sbjet         4364         GACTGGGGGGCCACAACTGGTTGTGCTCGCCCCCGGGGCTCGTCACTGT         4411           Sbjet         4424         GCCCACCCTAACATCGAGGGAGGTGGTCTGTCCCCCCCGGGGCCCCGCTTTACGGC         4471           Sbjet         4424         GCCCACCCTAACATCGAGGGAGGTTGCTCTGTCCACCACCGGGGAGACACTCCTTTACGG         4471           Sbjet         4424         GCCCACCCTAACATCGAGGGAGGTTGACACCGCGGAAGACACTCTCATCTTACTTA	Sbjct	4124		4183
Sbjet         4184         TATCAGGACCGGGTGAGAACANTACCACTGGCAGCCCATAGGTACTCCACCTAGGG         4243           Query         4232         CANAGTCCTCCCGACGGCGGGTGCTCAGGAGTGCTATAGACTANTATATTGTGAGGA         4291           Sbjet         4244         CAAGTTCCTCCCCGACGGCGGTGCTCAGGAGTGCTATAGACTATATAATTTGTGACGA         4303           Query         4392         GTGCCACTCCACGGATGCCACACTCCATCTTGGCCACTGCTCTTGACCAAGAGAA         4351           Sbjet         4364         GACCAGGGGGGGGAGGAGATGGTGTTGTCCCCCACCACCGTCCTTGACCTGT         4411           Sbjet         4364         GACCAGGGGGGGGAGGAGGTGTTGTTGTCCGCCACCACCGCACGGTAGCTGT         4423           Query         4412         GTCCCATCCTAACATCGAGAGAGTTGCTCTTGCCCACCACCACGGAGAGATCCCCTTTTACGG         4471           Sbjet         4424         GTCCCATCCTAACATCGAGGAGAGTTGTTGTCTGCACCACCACGGAGAGATCCCCTTTACGG         4483           Query         4525         GACAGGATTCCCCCTCGAGGTGATCAGGGGGGAAGACATCTCATCTTCTCTCCACACACA	_	4172	TATCAGGACCGGGGTGAGAACAATTACCACTGGCAGCCCCATCACGTACTCCACCTACGG	4231
Sbjet         4244         CAAGTTCCTTGCCGACGGCGGGGTGTCTAGGAGGTGTTATGACATAATAATTTTGTGACGA         4351           Query         4292         GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA         4351           Sbjet         4304         GTGCCACTCCACGGATGCCACATCCATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGA         4363           Query         4352         GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGTCACCCCTCCGGGGTCCGTCACTGT         4411           Sbjet         4324         GACTGCGGGGGGGAGACTGGTTGTGCTCGCCACCGCGGAGGATCCCCTTTTACGG         4413           Query         4412         GCCCATCCTACACTCGAGGGAGTGTGCTCTGTCCACCACCGGGAGGATCCCCTTTACGG         4483           Sbjet         4424         GTCCCATCCTACACTGAGGGAGGTGTCCCCTCGAGGGAGAGACACTCTCATTTTCTGCCACCTCAA         4531           Sbjet         4484         CAAGGCTATCCCCCTCCGAGGTGATCAAGGGGGGAAGACACTCTATTTCTGTCACCTCACAC         4532           Query         4522         GAAGAAGTGCGACGAGCTGCCCCGCCAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA         4651           Sbjet         4644         CAAGGCTATCCCCTTGACGTGTCATCCCGACCACCGGGGGATTGTGTCTGTGTGCTCAC         4651           Sbjet         4652         CGAAGCTCTTGACGTGTCTTCACCGCACCACCGGGGCGATTGTGGTTGCGTGCCTACACCGTGGCCTACCCTTGCACCTTGCGTTTCCACCTGCCTTCCACCGACCACGGGGCGAAGCTACCGTGTTCCACCGTGTTCCACCGCACCTTGCGTTTCCACCGACCACGGGGCATTCCACTTGCACTCTGTGTTACACCTTCCACCGACCACCGGGGCTTCCCACCGGGGCCTTCCCTTGCACCTTTACACTTTACACTTGACACCACCGTGTTCCACCGACCACCGGGGCTTCCCTTGACCTTTACACTTGACCTCCTCCTCCACCACCACCCCCC	- Sbjct	4184		4243
Sbjet         4244         CARGUTCCTTGCCGACGGGGGGGTGCTCAGGAGGTGCTTATGACAATAAATTTTTGTGACGA         4303           Query         4292         GTGCCACTCCACGGATGCCACATCCATCTGTGGCATCGGCACTTGACCAAGCAA         4351           Sbjet         4304         GTGCCACTCCACGGATGCCACATCCATCTTGAGCATCGGCACTTGCCTTTGACCAAGCAAC         4351           Sbjet         4364         GACTGGGGGGGAGAAACACGTTTTGTGGCACTGCCCTCTGACCCTTCTGATTTT         4421           Sbjet         4412         GACCATCCTAACATCGAGGAGGTTGCTCATCACCCTTCGAGGTCCGTTATCCGTT         4423           Query         4412         GTCCCATCCTAACATCGAGGAGGTTGCTCTCTGCACCCACC	Query	4232		4291
Sbjet         4304         GTGCCATCCAGGGATGCCACATCCATCTTGGGCATGTCTTGACCAAGCAGA         4363           Query         4352         GACTGCGGGGGCGAGACTGGTTGTGCTCGCCACTGGTACCCCTCGGGCTCCGTCACTGT         4411           Sbjet         4364         GACTGCGGGGGGAGACTGGTTGTGCTCGCCACTGTACCCCTCCGGGCTCGTCATCGT         4421           Sbjet         4122         GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCCCCGAGGAGATCCCCTTTTACG         4471           Sbjet         4424         GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCCCCGAGGAGATCCCCTTTTACG         4483           Query         4522         CAAGGCTATCCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACCAAA         4531           Sbjet         4444         CAAGGCTATCCCCCTCCAAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACCAAA         4531           Sbjet         4544         GAAGGAGTGCGACGAGCTCCCCGCCAACAGCTGCCCACCAGAGACATCCATC	Sbjct	4244		4303
sbjet         4304         GTGCGACTGCAGGGATGCCATACTGTTGGGCATGGCCATGTCTTTGACCAAGCAGGA         4363           Query         4352         GACTGCGGGGGGCAACTGGTTGTGCTCGCACTGTTACCCTCCGGGCTCCGTCACTGT         4411           Sbjet         4364         GACTGCGGGGGGCGAACTGGTTGTGCTGCCACCTGCTACCCTCCGGGCTCCGTCACTGT         4423           Query         4424         GTCCATCCTAACATCGAGGAGGTTGCTGTCCACCACCGGGAGAACACCTCTTTTACGG         4471           Sbjet         4424         GTCCATCCTAACATCGAGGAGGTTGCTGTCCACCACCGGGAGACTCTTTTTACGG         4483           Query         4472         CAAGGCTATCCCCCCTGCAGGTGATCAAGGGGGGAACACTCTTTTGTGCCACCAAA         4531           Sbjet         4484         CAAGGCTATCCCCCCTGAGGTGATCAAGGGGGGAACACTCTTTTTTCTGCACCACAAA         4543           Query         4532         GAAGAAGTCCCACCGAGGAGCTGCCCCGCGAAGCATGCACCACCACGGGGATCTAATGCCGTGGCCTA         4691           Sbjet         4544         GAAGAAGTCCCACCAGCAGCTCGCCCGAAGCTGGTCCCATTTGCACCACACTGCCCACAACCACGCCACCACCACCACCACCACCACCACCA	Query	4292		4351
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Sbjet 4424 GTCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGAGAGAGTCCCTTTTACGG 4483 Query 4472 CAAGGCTATCCCCCTCGAGGTCATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA 4531 Sbjet 4484 CAAGGCTATCCCCCTGGAGGTCACAAGGGGGAAGACATCTCATCTTCTGCCACTCAAA 4543 Query 4532 GAAGAAGTGCGACGAGCCTCGCGCGCAAGAGCCATCTATCATCTTCTCCACTCACAA 4543 Query 4534 GAAGAAGTGCGACGAGCTCGCCGCGGAAGCCTGTGCGATTGAGCGTGGCCTA 4693 Query 4592 CTACCGCGGTCTTGACGTGTCTATCCCGACCAGCGGCGATCATATCCGTGGCCTA 4603 Query 4592 CTACCGCGGTCTTGACGTGTCTATCCCGACCAGCGGCGATGTTGCTGTGTCGAC 4651 Sbjet 4604 CTACCGCGGTCTTGACGTGTCTATCCCGACCAGCGGCGATGTTGCTGTGTGCAC 4651 Sbjet 4664 CGATCCTCTATGACTGTCTATCCCGACCAGCGGGCATGTTTCCGTGTCGAC 4663 Query 4652 CGATGCTCTCATGACTGTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG 4711 Sbjet 4664 CGATCCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG 4723 Query 4712 TGTCACTCAGACAGTGGATTTACCGGCGACTTCGACTCTTGACACACAC	Sbjct	4364		4423
Sbjet         4424         GTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCACCACCGGAGAGATCCCCTTTTACCGG         4483           Query         4472         CAAGGCTATCCCCCTGAGGTGATCAAGGGGGAAGACATCTCATCTTTGCCACTCAAA         4531           Sbjet         4484         CAAGGCTATCCCCCTGAGGTGATCAAGGGGGAAGACATCTCATCTTCTGCCACTCAAA         4543           Query         4532         GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGCCTTGGCATTGGGCATCAATGCCGTGGCCTA         4591           Sbjet         4544         GAAGAAGTGCGACGACCTCGCCGCGAAGCTGGCCATTGGGCATCAATGCCGTGGCCTA         4603           Query         4592         CTACCGCGGTCTTGACGTGTCTGCACCCCGGCAAGCTGGGCATTTGGCCACTCGTGTCGAC         4651           Sbjet         4604         CTACCGCGGTCTTGACGTGTCTGCACCCCGGCACTCCGACCTGGCACTTGCGACCACCGGG         4711           Sbjet         4662         CGATGCTCCATGACATGGCTTTACCGGCGACTTCGACCTTGACTCTGAACACGTGG         4723           Query         4724         TGTCACTCAGACAGTGGATTTCACCGCCGACTTCCACCTTACACTACACACAC	Query	4412		4471
Sbjet 4484 CAAGGCTATCCCCTCGAGGTGATCAAGGGGGGAAGCATCTCATCTTCTGCCACTCAAA 4543  Query 4532 GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTA 4603  Query 4592 CTACCGGGGTCTTGACGTCTGTCTGTCTCTCCGCACTCAATGCCGTGGCCTA 4603  Query 4592 CTACCGGGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTCTTCGTCTGTCGAC 4651  LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIAN LILLIA	Sbjct	4424		4483
Query         4532         GAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCGCATTGGGCATTCAATGCCGTGGCCTA         4591           Sbjet         4544         GAAGAAGTGCGACGAGCTCGCCGGAAGCTGGCCGATTGGCCATTGGCATTCGGCATTCGGCCTA         4603           Query         4592         CTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTCGTCGTCGAC         4651           Sbjet         4604         CTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATTTGTCGTCGTCGTCGAC         4663           Query         4652         CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCGAACCAGGT         4711           Sbjet         4664         CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGACACACGGT         4723           Query         4712         TGTCACTCAGACAGTCGATTTCAGCCTTGACCTTACCATTTACCATTGAGACAACCACGGT         4771           Sbjet         4724         TGTCACTCAGACAGTCGATTTCAGCCTTGACCTTACCATTTACCATTGAGACAACCACGGT         4783           Query         4772         CCCCCAGGATGCTGTCTCCAGGACTCAGCCTACCTTTACCATTGACGACACACCACGGT         4831           Sbjet         4784         CCCCCAGGATGCTGTCTCCAGGACCTCCAGCGGGGGAGGACTGGCAGGGGGAGACCAGG         4891           Sbjet         4844         CATCTATAGATTTGTGGCACCGGGGGAGGCCCCTCCCGGCATGTTCGACTCCTCCTC         4901           Sbjet         4904         CTGTGAGTGCTATGACCGGGCTTGTTCTGTTAGACTCCAGCCCCCCCC	Query	4472		4531
Sbjet 4544 GAAGAAGTGCGACGGAAGCTGGCCGCAAGCTGGACTAATGCCGTGCCTA 4603  Query 4592 CTACCGCGGTCTTGACGTGTCTGTCATCCGACCAGCGGCATGTTGCATTGCGACTGTGCAC 4651  Sbjet 4604 CTACCGCGGTCTTGACGTGTCTGTCATCCGGACCAGCGGCGATGTTGTCGTCTGACACGTG Query 4652 CGATGCTCTCATGACTGGCTTTACCGGCGACCAGCGGCGATGTTGTCGACCACACGTG 4711  Sbjet 4664 CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG 4712  Query 4712 TGTCACTCAGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG 4771  Sbjet 4724 TGTCACTCAGACAGTCGATTTCAGCCTTACCTTTACCATTGAGACAACACACGTT 4771  Sbjet 4772 CCCCCAGGATGCTGTCTCCAGGACTTCAACCCTTACCTTTACCATTGAGACAACACACGT 4783  Query 4772 CCCCCAGGATGCTGTCTCCAGGACTCTAACCCTTACCTTTACCATTGAGACAACACACGT 4783  Sbjet 4784 CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGG 4843  Query 4832 CATCTATAGATTTGTGGCACCGGGGGAGGCCCCCTCCGGCATGTCCATCCTCCTC 4891  Sbjet 4844 CATCTATAGATTTGTGGCACCGGGGGAGGCCCCCTCCGGCATGTCCACCTCCT 4903  Query 4892 CTGTGAGTGCTATGACCGGGGGGAGGCCCCCTCCGGCATGTCCACCTCCTC 4903  Query 4952 TAGGCTACGACGCGGGGGGGGGGAGCCCCCCTCGGCATGTCCACCGTCCTC 4903  Query 4952 TAGGCTACGACGCGGGGGCTGGCTTGGTATGAGCCCAGCCCGCCGAGACTACAGT 4963  Query 5012 TTGGGAGGCGTACATGAACACCCCGGGGCTTCCCTGTGCCAGCACACACA	_		CAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAA	
Query         4592         CTACCGCGGTCTTGACGTGTCTGTCATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGAC         461           Sbjct         4604         CTACCGCGGTCTTGACGTGTCTGTCATCCCCGACCAGCGGCGATGTTGTCGTCGTGCAC         4663           Query         4652         CGATGCTCTAGACTGGCTTTACCGGCGACTCTGTGATAGACTGCACACACGTG         4711           Sbjct         4664         CGATGCTCTCATGACTGGCTTTACCGGCGACTCTGGATAGACTGCAACACGTG         4723           Query         4712         TGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAGACAACACGCT         4771           Sbjct         4724         TGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAGACAACCACGCT         4783           Query         4772         CCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG         4813           Sbjct         4784         CCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCCGGGGGAAGCCAGG         4843           Query         4832         CATCTATAGATTTGTGGCACCGGGGGAGCGCCCCCTCCGGCATGTTCGACTCGTCCCT         4891           Sbjct         4844         CATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGACTCGTCCCT         4903           Query         4892         CTGTGAGTGCTATGACGCGGGCTTGGCTTGGATTGACGCCCGCGAGACTACAGT         4963           Query         4952         TAGGCTACGAGCGTACTAGACACCCGGGGCTTCCCTGGTAGCCAGGACCATCCTGAATT         501           Sbjct         4964         TAGGCTACGAGCGTACTATAGAGACCCCCGGGGCTTCC	_			
Sbjet 4604 CTACCGCGGTCTTGACGTGTCTGTCCGACCAGCGGCGATGTTGTCGTCTGACCACAGCGGCGAGAGTGTGTCGTCTGACCACACAGGGGAGAGGAGGAGGAGGAGGAGGAGGAGGA	_			
Query4652CGATGCTCTCATGACTGGCTTTACCGGCGACTTCGACTCTGTGATAGACTGCAACACGTG IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	_			
Sbjet 4664 CGATGCTCCATGACTGGCTTTACCGGCGACTCTGTGATAGACTGCAACACGTG 4723 Query 4712 TGTCACTCAGACAGTCGATTTCAGCCTTACCTTTACCATTGAGACAACCACGCT 4771 Sbjet 4724 TGTCACTCAGACAGTCGATTTCAGCCTTGACCTTTACCATTGAGACAACCACGCT 4783 Query 4772 CCCCCAGGATGTCTCCCAGGACTCACCCTTACCATTGAGACAACCACGCT 4783 Sbjet 4784 CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAAGACTGGCAGGGGGGAAGCCAGG 4843 Query 4832 CATCTATAGATTTGTGGCACCGGGGGGAGCCCCCTCCGGCATGTTCGACTCGTCCCT 4891 Sbjet 4844 CATCTATAGATTTGTGGCACCGGGGGGAGAGCCCCCTCCGGCATGTTCGACTCGTCCCT 4903 Query 4892 CTGTGGAGTGCTAGACGCGGGGGAGACCCCCCTCCGGCATGTTCGACTCGTCCCT 4903 Query 4994 CTGTGAGTGCTATGACGCGGGGGGAGACCCCCTCCGGCATGTTCGACTCGTCCCT 4903 Query 4952 TAGGCTACGACGCGGGCTTGCTTGGTATGAGCTCACGCCCGCC	_			
Query4712TGTCACTCAGACAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAGACAACCACGCT4771Sbjct4724TGTCACTCAGACAGTCGATTTCAGCCTTGACCCTTGACCCTTTACCATTGAGACAACCACGCT4783Query4772CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGGGGAGCCAGGGGAAGCCAGG4831Sbjct4784CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGG4843Query4832CATCTATAGATTTGTGGCACCGGGGGAGCCCCTCCGGCATGTTCGACTCGTCCGT4891Sbjct4844CATCTATAGATTTGTGGCACCGGGGGAGCCCCTCCGGCATGTTCGACTCGTCCTC4903Query4892CTGTGAGTGCTATGACCGGGGGGAGCCCCTCCCGGCATGTTCGACTCGTCCCT4903Sbjct4904CTGTGAGTGCTATGACCGGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	_			
Sbjet 4724 TGTCACTCAGACCAGTCGATTTCAGCCTTGACCCTACCTTTACCATTGAGACCACCGC 4783  Query 4772 CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGG 4831  Sbjet 4784 CCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG 4843  Query 4832 CATCTATAGATTTGTGGCACCGGGGGAGCCCCTCCGGCATGTTCGACTCGTCCT 4891  Sbjet 4844 CATCTATAGATTTGTGGCACCGGGGGAGCCCCCTCCGGCATGTTCGACTCGTCCT 4903  Query 4892 CTGTGAGGTGCTATGACGCCGGGGGAGCCCCCTCCGGCATGTTCGACTCGTCCT 4903  Query 4892 CTGTGAGTGCTATGACGCGGGGGTGTCTTGGTATGAGCTCAGCCCGGCCGAGACTACAGT 4951  Sbjet 4904 CTGTGAGTGCTATGACGCCGGGGTGTTCTGGTATGAGCTCACGCCCGCC	_			
Sbjet 4784 CCCCCAGGATGCTGTCCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGG 4843  Query 4832 CATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGACTCGTCCT 4891  Sbjet 4844 CATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGACTCGTCCT 4903  Query 4892 CTGTGAGTGCTATGACGCGGGGTGTTTGGTATGAGCTCAGCCCGCCGCAGACTACAGT 4951  Sbjet 4904 CTGTGAGTGCTATGACGCGGGCTGTGTTGGTATGAGCTCACGCCCGCC	_	4724		4783
Sbjet 4784 CCCCCAGGATGCTCTCCAGGACTCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGG 4843  Query 4832 CATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGACTCGTCCCT 4891  Sbjet 4844 CATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTCCGGCATGTTCGACTCGTCCGTC	Query	4772		4831
Sbjet 4844 CATCTATAGATTTGTGGCACCGGGGGAGCGCCCTCCGGCATGTTCGACTCGTCCT 4903  Query 4892 CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCC	Sbjct	4784		4843
Sbjct 4844 CATCTATAGATTTGTGGCACCGGGGGAGCCCCCTCCGGCATGTTCGACTCGTCCT 4903  Query 4892 CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGAGACTACAGT 4951  Sbjct 4904 CTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGAGCTCACGCCCGCGAGACTACAGT 4963  Query 4952 TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT 5011  Sbjct 4964 TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT 5023  Query 5012 TTGGGAGGGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT 5023  Sbjct 5024 TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA 5071  Sbjct 5024 TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA 5083  Query 5072 GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC 5131  Sbjct 5084 GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC 5143  Query 5132 TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC 5191  Sbjct 5144 TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC 5203  Query 5192 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5251  Sbjct 5204 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5263	Query	4832		4891
Sbjct 4904 CTGTGAGTGCTATGACGCGGGCTTTGGTATGAGCTCACGCCCGCC	Sbjct	4844		4903
Sbjet 4904 CTGTGAGTGCTATGACGCGGGGCTGTGCTTGGTATGAGCTCACGCCGGCGAGACTACAGT 4963  Query 4952 TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT 5011  Sbjet 4964 TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT 5023  Query 5012 TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACCTTTTTATCCCAGACAAA 5071  Sbjet 5024 TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA 5083  Query 5072 GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC 5131  Sbjet 5084 GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC 5143  Query 5132 TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC 5191  Sbjet 5144 TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC 5203  Query 5192 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5251  Sbjet 5204 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5263	Query	4892		4951
Sbjet 4964 TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT 5023  Query 5012 TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA 5071  Sbjet 5024 TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA 5083  Query 5072 GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC 5131  Sbjet 5084 GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC 5143  Query 5132 TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC 5191  Sbjet 5144 TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC 5203  Query 5192 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCT 5251  Sbjet 5204 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCT 5263	Sbjct	4904		4963
Query5012TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA5071Sbjct5024TTGGGAGGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA5083Query5072GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC5131Sbjct5084GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC5143Query5132TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC5191Sbjct5144TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC5203Query5192CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT5251Sbjct5204CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT5263	_	4952		5011
Sbjct 5024 TTGGGAGGCGTCTTTACGGGCCTCACTCATATAGATGCCCACTTTTTATCCCAGACAAA 5083  Query 5072 GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC 5131  Sbjct 5084 GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC 5143  Query 5132 TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC 5191  Sbjct 5144 TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC 5203  Query 5192 CCTCCATGGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5251  Sbjct 5204 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5263	Sbjct		TAGGCTACGAGCGTACATGAACACCCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATT	
Query5072GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC5131Sbjct5084GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC5143Query5132TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC5191Sbjct5144TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC5203Query5192CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT5251Sbjct5204CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT5263	_			• • • •
Sbjct 5084 GCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGC 5143  Query 5132 TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC 5191  Sbjct 5144 TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC 5203  Query 5192 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5251  Sbjct 5204 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5263	_			
Query5132TCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC5191Sbjct5144TCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCAC5203Query5192CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT5251Sbjct5204CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT5263	_			
Sbjct 5144 TCAAGCCCTCCCCCATCGTGGGACCAGATGTGGAAGTGTTGATCCGCCTTAAACCCAC 5203  Query 5192 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5251  Sbjct 5204 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5263	_			
Query 5192 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5251	_			
Sbjct 5204 CCTCCATGGGCCAACACCCCTGCTATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCT 5263	_			
-	_			
	Query	5252	GACGCACCCAATCACCAAATACATCATGACATGCATGTCGGCCGACCTGGAGGTCGTCAC	5311

Sbjct	5264		5323
Query	5312	GAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGTCGCCGCGTATTGCCTGTCAAC	5371
Sbjct	5324		5383
Query	5372	AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5431
Sbjct	5384	AGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGA	5443
Query	5432	CAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5491
Sbjct	5444	CAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTA	5503
Query	5492	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5551
Sbjct	5504	CATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCA	5563
Query	5552	GACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAAACT	5611
Sbjct	5564	GACCGCGTCCCGCCATGCAGAGGTTATCACCCCTGCTGTCCAGACCAACTGGCAGAAACT	5623
Query	5612	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACAATACTTGGCGGG	5671
Sbjct	5624	CGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCATCAGTGGGATACAATACTTGGCGGG	5683
Query	5672	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5731
Sbjct	5684	CCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGT	5743
Query	5732	CACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTgggggggTGGGTGGC	5791
Sbjct	5744	CACCAGCCCACTAACCACTGGCCAAACCCTCCTCTTCAACATATTGGGGGGGTGGGT	5803
Query	5792	TGCCCAGCTCGCCGCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5851
Sbjct	5804	TGCCCAGCTCGCCGCCCCGGTGCCGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGC	5863
Query	5852	CGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGC	5911
Sbjct	5864 5912	CGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGC GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGA	5923 5971
Query Sbjct	5924	GGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCATGAGCGTGAGGTCCCCTCCACGGA	5983
Query	5972	GGACCTGGTCAATCTGCCCGCCATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGT	6031
Sbjct	5984		6043
Query	6032	CTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAA	6091
Sbjct	6044		6103
Query	6092	CCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATGTTTCCCCCACGCACTACGTGCCGGA	6151
Sbjct	6104		6163
Query	6152	GAGCGATGCAGCCGCCCGCGTCACTGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCT	6211
Sbjct	6164		6223
Query	6212	GAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCT	6271
Sbjct	6224		6283
Query	6272	AAGGGACATCTGGGACTGGATATGCGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGC	6331
Sbjct	6284		6343
Query	6332	CAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGG	6391
Sbjct	6344	CAAGCTCATGCCACAACTGCCTGGGATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGG	6403
Query	6392	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6451

Sbjct	6404	GGTCTGGCGAGGAGACGGCATTATGCACACTCGCTGCCACTGTGGAGCTGAGATCACTGG	6463
Query	6452	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAG	6511
Sbjct	6464	ACATGTCAAAAACGGGACGATGAGGATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAG	6523
Query	6512	TGGGACGTTCCCCATTAACGCCTACACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAA	6571
Sbjct	6524	TGGGACGTTCCCCATTAACGCCTACACCACGGCCCCTGTACTCCCCTTCCTGCGCCGAA	6583
Query	6572	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6631
Sbjct	6584	CTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGG	6643
Query	6632	GGACTTCCACTACGTATCGGGTATGACTACTGACAATCTTAAATGCCCGTGCCAGATCCC	6691
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Query	6692	ATCGCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6751
Sbjct	6704	ATCGCCCGAATTTTCACAGAATTGGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTG	6763
Query	6752	CAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGG	6811
Sbjct	6764	CAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGG	6823
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Sbjct	6824	gtcgcaattaccttgcgagcccgaaccggacgtagccgtgttgacgtccatgctcactga	6883
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Query	6932	TATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGC	6991
Sbjct	6944	TÄTGGCCÄGCTCGGCTÄGCCÄGCTGTCCGCTCCÄTCTCTCÄÄGGCÄÄCTTGCÄCCGC	7003
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Sbjct	7004	CÁACCATGACTCCCCTGÁCGCCGÁGCTCÁTÁGÁGGCTÁACCTCCTGTGGÁGGCÁGGÁGAT	7063
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Sbjct	7064	GGGCGGCAACATCACCAGGGTTGAGTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGA	7123
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Sbjct	7124	TCCGCTTGTGGCAGAGGATGAGCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAA	7183
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Sbjct	7304	ACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGA	7363
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Sbjct	7364	ATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAAC	7423
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Sbjct	7424	TTCCGGCATTACGGGCGACAATACGACAACATCCTCTGAGCCCGCCC	7483
Query	7472	deegGaCTCCGACGTTGAGTCCTATTCTTCCATGeegeccTGGAGGGGGAGCCTGGGGA	7531
Sbjct	7484	CCCCGACTCCGACGTTGAGTCCTATTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGA	7543
Query	7532	TCCGGATCTCAGCGACGGTCATGGTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGT	7591

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Query	7652	AGAACAAAAACTGCCCATCAACGCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGT	7711
Sbjct	7664		7723
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Sbjct	7724	GTATTCCACCACTTCACGCAGTGCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACT	7783
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Sbjct	7784	gcaagttctggacagccattaccaggacgtgctcaaggaggtcaaagcagcggcgtcaaa	7843
Query	7832	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGC	7891
Sbjct	7844	AGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTTGCAGCCTGACGCCCCACATTCAGC	7903
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Query	7952	CCACATCAACTCCGTGTGGAAAGACCTTCTGGAAGACAGTGTAACACCAATAGACACTAC	8011
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Query	8252	CTCGTATGATACCCGCTGTTTTGACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGA	8311
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Query	8372	TGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCG	8431
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Query	8432	CAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCTGTGGTAACACCCTCACTTGCTACAT	8491
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Query	8492	CAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGG	8551
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Sbjct	8564	cgacgacttagtcgttatctgtgaaagtgcggggtccaggaggacgcgggcgagcctgag	8623
Query	8612	AGCCTTCACGGAGGCTATGACCAGGTACTCCGcccccccaggggaccccccACAACCAGA	8671
Sbjct	8624	AGCCTTCACGGAGGCTATGACCAGGTACTCCGCCCCCCGGGGGACCCCCCACAACCAGA	8683
Query	8672	ATACGACTTGGAGCTTATAACATCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGC	8731

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                 9344
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Sbjct
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>gb|EA372967.1| Sequence 3 from patent US 7314710 Length=8451

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Score = 1.208e+04 bits (6542), Expect = 0.0 Identities = 6742/6837 (98%), Gaps = 20/6837 (0%)
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                                                                 1688
Sbjct
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     2829
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Query	2889	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCCgggggggg	2948
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Query	2949	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACC	3008
Sbjct	1809	ĊĠĊĠĂŢĠĊĊĠŢĊĂŢĊŢŢĀĊŢĊĀŢĠŢĠŢŢĠŢĀĊĀĊĊĊĠĀĊŢĊŢĠĠŢĀŢŢŢĠĀĊĀŢĊĀĊĊ	1868
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	3068
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Query	3069	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	1929	ĊĊĊŦĀĊŦŦĊĠŦĠĊĠĊĠŦŦĊĀĀĠĠĊĊŦŦĊŦĊĊĠĠĀŦĊŦĠĊĠĊĠĊŦĀĠĊĠĊĠĠĀĀĠĀŦĠĀ-Ċ	1987
Query	3128	CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
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Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT	3247
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Query	3248	GGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
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Sbjct	2228	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	2287
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Sbjct	2288	cacggcgtacgccagcagacgagaggcctcctagggtgtataatcaccagcctgactgg	2347
Query	3488	CCGGGACAAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
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Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
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Query	3608	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	2468	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	2527
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Sbjct	2528	gggctggcccgctcaaggttcccgctcattgacaccctgcacctgcgctcctcgga	2587
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2588	cctttacctggtcacgaggcacgccgacgtcattcccgtgcgccgaggtgatagcag	2647
Query	3788	GGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGGTCCGCT	3847
Sbjct	2648	gggtagcctgcttttgccccggcccatttcctacctaaaaggctcctcggggggtccgct	2707
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Sbjct	2708	gttgtgccccgcggacacgccgtgggcctattcagggccgcggtgtgcacccgtggagt	2767
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	2768	GGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACCATGAGATCCCCGGT	2827
Query	3968	GTTCACGGACAACTCCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	4027
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Query	4028	TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087
Sbjct	2888	TGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	2947
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
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Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
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Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	3068	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGCGC	3127
Query	4268 3128	TTATGACATAATATTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4327 3187
Sbjct Query	4328	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4387
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Sbjct	3248		3307
Query	4448	CACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	4506
Sbjct	3308		3366
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Sbjct	3367	GACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	3426
Query	4567	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4626
Sbjct	3427	ĊATTĠĠĠĊATĊAATĠĊĊĠTĠĠĊĊTAĊŤAĊĊĠĊĠĠAĊŦŦĠAĊĠŦĠŦĊŦĠŦĊAŦĊĊĊĠAĊĊA	3486
Query	4627	GCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	3487	GCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	3546
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTA	4746
Sbjct	3547	ACTCTGTGATAGACTGCAACACGTGTGTCACCCAGACAGTCGATTTCAGCCTTGACCCTA	3606
Query Sbjct	4747 3607	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	4806 3666
Query	4807	GCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCT	4866
Sbjct	3667		3726
Query	4867	CCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	3727	CCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	3786
Query	4927	AGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	4986
Sbjct	3787	AGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	3846
Query	4987	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5046
Sbjct	3847	ccgtgtgccaggaccatcttgaattttgggagggcgtctttacgggcctcacccatatag	3906
Query	5047	ATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	5106
Sbjct	3907	ATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	3966
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	3967	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGA	4026

Query	5167	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	4027	AĞTĞTTTĞATCCĞCCTTAAACCCACCCTCCATĞĞĞCCAACACCCCTĞCTATACAĞACTĞĞ	4086
Query	5227	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	5286
Sbjct	4087	ĠĊĠĊŢĠŢŢĊĂĠĂĂŢĠĂĂĠŢĊĂĊĊĊŢĠĂĊĠĊĂĊĊĊĂĂŢĊĂĊĊĂĂĂŢĂĊĂŢĊĂŢĠĀĊĂŢĠĊĀ	4146
Query	5287	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	5346
Sbjct	4147	rgtcggccgacctggaggtcgtcacgagcacctgggtgctcgttggcggcgtcctggctg	4206
Query	5347	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5406
Sbjct	4207	ctctggccgcgtattgcctgtcaacaggctgcgtggtcatagtgggcaggattgtcttgt	4266
Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGGGTTCTCTACCAGGAGTTCGATGAGATGG	5466
Sbjct	4267	ccgggaagccggcaattatacctgacagggaggttctctaccaggagttcgatgagatgg	4326
Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	4327	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	4386
Query	5527	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	4387	agcagaaggccctcggcctcctgcagaccgcgtcccgccatgcagaggttatcacccctg	4446
Query	5587	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	4447	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGAATTTCA	4506
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Sbjct	4507	TCAGTGGGATACAATATTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4566
Query	5707	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	5766
Sbjct	4567	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	4626
Query	5767	TCAACATATTggggggGGGGGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4627	TCAACATATTGGGGGGGGGGGGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTACCGCCT	4686
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4687	tigigggcgctggcttagctggcgccgccatcggcagcgttggactggggaaggtcctcg	4746
Query	5887	TGGACATTCTTGCAGGGTATGGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4747	TGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	4806
Query	5947	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	6006
Sbjct	4807	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCCATCCTCGC	4866
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGCCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	6066
Sbjct	4867	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	4926
Query	6067	GCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	4927	GCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGAACCATG	4986
Query	6127	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6186
Sbjct	4987	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	5046
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	5047		5106
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	5107		5166

Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTG	6366
Sbjct	5167	gcgactttaagacctggctgaaagccaagctcatgccacaactgcctgggattccctttg	5226
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	5227	rigt cct gccagc gc gc at a a gc gc gc gc a ga ga ga ga ga gc a ga gc a cach c gc t	5286
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	5287	ĠĊĊĂĊŦĠŦĠĠĂĠĊŦĠĂĠĂŦĊĂĊŦĠĠĂĊĂŦĠŦĊĂĂĂĂĂĊĠĠĠĂĊĠĂŦĠĂĠĠĂŦĊĠŦĊĠĠŦĊ	5346
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	6546
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Query	6547	CCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	5407	CCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	5466
Query	6607	AATACGTGGAGATAAGGCGGGTGGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	5467	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	5526
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	6726
Sbjct	5527	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	5586
Query	6727	GCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	6786
Sbjct	5587	GCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	5646
Query	6787	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	6846
Sbjct	5647	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	5706
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906
Sbjct	5707	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCCGGCC	5766
Query	6907	GGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	5767	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	5826
Query	6967	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	5827	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	5886
Query	7027	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	5887 7087	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA  AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	5946 7146
Query Sbjct	5947	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	6006
Query	7147	CCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGG	7206
Sbjct	6007	CCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGCCCTTTGGG	6066
Query	7207	CGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	7266
Sbjct	6067	CGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	6126
Query	7267	CTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGA	7326
Sbjct	6127		6186
Query	7327	AAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCA	7386
Sbjct	6187	AAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCA	6246
Query	7387	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCT	7446
Sbjct	6247	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGACAACATCCT	6306
22700	021,		

Query	7447	CTGAGCCCGCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTTCCATGC	7506
Sbjct	6307	ctgagcccgcccttctggctgccccccgactccgacgttgagtcctattcttccatgc	6366
Query	7507	cccccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCA	7566
Sbjct	6367	CCCCCTGGAGGGGAGCCTGGGGATCCGGATTTCAGCGACGGTCATGGTCGACGGTCA	6426
Query	7567	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCG	7626
Sbjct	6427	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATACCTGGACAGGCG	6486
Query	7627	CACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACT	7686
Sbjct	6487	CACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACT	6546
Query	7687	CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	7746
Sbjct	6547	CGTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	6606
Query	7747	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	7806
Sbjct	6607	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	6666
Query	7807	AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	7866
Sbjct	6667	AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	6726
Query	7867	GCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCC	7926
Sbjct	6727	GCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCC	6786
Query	7927	GTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	7986
Sbjct	6787	GTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	6846
Query	7987	ACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGC	8046
Sbjct	6847	ACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTCTGCGTTCAGC	6906 8106
Query Sbjct	8047 6907	CTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCG	6966
Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAA	8166
Sbjct	6967		7026
Ouerv	8167	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGA	8226
Sbjct	7027		7086
Query	8227	AGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCA	8286
Sbjct	7087		7146
Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	8346
Sbjct	7147		7206
Query	8347	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	8406
Sbjct	7207		7266
Query	8407	CAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCT	8466
Sbjct	7267		7326
Query	8467	GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCC	8526
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Query
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Sbjct
Query
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Query
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Query
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Query
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                                                                                                    9066
Query
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Query
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Sbjct
Query
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                 Sbjct
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                                                                                                    8046
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                                                                                                    9246
Query
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Sbjct
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Query
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Query
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Sbjct
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                                                                                                    9424
Query
         8227
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Sbjct
         9425
                                                                                                    9484
Query
                 	au to this titue to the total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total total to
                 Sbjct
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                                                                                                    8334
         9485
                 9542
Query
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         8335
Sbjct
         9543
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                                                                                                9599
Query
                 Sbjct
 Score = 1062 bits (575), Expect = 0.0 Identities = 584/588 (99\%), Gaps = 2/588 (0\%)
 Strand=Plus/Plus
Query
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Sbjct
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Query
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        239
Sbjct
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Query
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Sbjct
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    480
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Query
        480
                                                  539
Sbjct
Query
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        AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT
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    540
Sbjct
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## >dbj|DD070078.1| PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS Length=8451

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Score = 1.208e+04 bits (6542), Expect = 0.0 Identities = 6742/6837 (98%), Gaps = 20/6837 (0%)
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                                                     1688
Sbjct
Query
     2829
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                                                     2888
         Sbjct
     1689
                                                     1748
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     2889
                                                     2948
Query
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Sbjct
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Query
     2949
                                                     3008
         Sbjct
     1809
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Query
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Query
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     1929
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Query
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Sbjct	2048	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT	2107
Query	3248	GGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	2108	GGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	2167
Query	3308	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA	3367
Sbjct	2168	TÁCCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA	2227
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCCCCAT	3427
Sbjct	2228	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	2287
Query	3428	CACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	2288	CACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	2347
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	2348	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	2407
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	2408	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	2467
Query	3608	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	2468	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	2527
Query	3668	GGGCTGGCCCGCTCCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	2528	gggctggcccgctcctcaaggttcccgctcattgacaccctgcacctgcgctcctcgga	2587
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2588	CCTTTACCTGGTCACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	2647
Query	3788	GGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGGTCCGCT	3847
Sbjct	2648	ĠĠĠŦĂĠĊĊŦĠĊŦŦŦŦĠĊĊĊĠĠĊĊĊĂŦŦŦĊĊŦĂĊĊŦĂĂĂĂĠĠĊŦĊĊŦĊĠĠĠĠĠŦĊĊĠĊŦ	2707
Query	3848	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	2708	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT	2767
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	2768	gĠĊĊAAĠĠĊĠĠŦĠĠAĊŦŦŦĂŦĊĊĊŦĠŦĠĠAĠAAĊĊŦAĠAĠAĊĊAŦĠAĠAŦĊĊĊĊĠĠŦ	2827
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Sbjct	2828	GTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	2887
Query	4028	TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087
Sbjct	2888	TĠĊŢĊĊĊĂĊĊĠĠĊĂĠŢĠĠŢĂĂĠĂĠĊĂĊĊĂĂĠĠŢĊĊĊĠĠĊŢĠĊĠŢĂĊĠĊĀĠĊĊĊĀĠĠĠĊŢĀ	2947
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2948	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	3007
Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	3008	CAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	3067
Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	3068	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGCGC	3127
Query	4268	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4327
Sbjct	3128	TTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	3187

Query	4328	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACTGC	4387
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Query	4388	TACCCCTCCGGGCTCCGTCACTGTGCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	3248	TACCCCTCCGGGCTCCGTCACTGTGCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	3307
Query	4448	CACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	4506
Sbjct	3308	CACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	3366
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	3367	GACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	3426
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Sbjct	3427	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	3486
Query	4627	GCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	3487	ĠĊĠĠĊĠĂŦĠŦŦĠŦĊĠŦĊĠŦĠŦĊĠĂĊĠĀŦĠĊŦĊŦĊĂŦĠĂĊŦĠĠĊŦŦŦĂĊĊĠĠĊĠĂĊŦŤĊĠ	3546
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Query	4747	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	4806
Sbjct	3607	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG	3666
Query	4807	GCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCT	4866
Sbjct	3667	GCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCT	3726
Query	4867	CCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	3727	CCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	3786
Query	4927	AGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	4986
Sbjct	3787	AGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	3846
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Sbjct	3847	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACCCATATAG	3906
Query	5047	ATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	5106
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Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGA	5166
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Query	5167 4027	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	4086
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_	5287	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	5346
Query Sbjct	4147	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	4206
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Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGG	5466
Sbjct	4267		4326
	1201	UIABADINO I DINOMO DI TOTO I DO NOMO DE LA CONTRETE LA CONTRETE DE	1020

Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	4327	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	4386
Query	5527	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	4387	AGCAGAAGGCCCTCGGCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	4446
Query	5587	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	4447	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGAATTTCA	4506
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Sbjct	4507	TCAGTGGGATACAATATTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4566
Query	5707	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	5766
Sbjct	4567	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	4626
Query	5767	TCAACATATTggggggTGGGTGCCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4627	TCAACATATTGGGGGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTACCGCCT	4686
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4687	TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	4746
Query	5887	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4747	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGAGCTCTTGTAGCATTCAAGATCA	4806
Query	5947	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	6006
Sbjct	4807	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCCATCCTCTCGC	4866
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	6066
Sbjct	4867	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	4926
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Sbjct	4927		4986
Query	6127	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6186
Sbjct	4987	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCGCGTCACTGCCATACTCA	5046
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	5047		5106
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	5107	CCACTCCATGCTCCGGCTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	5166
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Sbjct	5167		5226
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Sbjct	5227		5286
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	5287		5346
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	6546
Sbjct	5347		5406
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Sbjct	5527		5586
Query	6727	GCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	6786
Sbjct	5587	GCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	5646
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Sbjct	5647	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	5706
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906
Sbjct	5707	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCCGGCC	5766
Query	6907	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	5767	ggttggcgagagggtcaccccttctatggccagctctctcggccagcca	5826
Query	6967	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	5827	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	5886
Query	7027	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	5887	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	5946
Query	7087	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	7146
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Sbjct	6007 7207	CCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTTTGGG	6066 7266
Query Sbjct	6067	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	6126
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Sbjct	6127		6186
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Sbjct	6187	AAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTGCCTTGGCCGAGCTTGCCA	6246
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Sbjct	6247	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGACAACATCCT	6306
Query	7447	CTGAGCCCGCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTTCCATGC	7506
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Sbjct	6367	CCCCCTGGAGGGGAGCCTGGGGATCCGGATTTCAGCGACGGTCATGGTCGACGGTCA	6426
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Sbjct	6427	ĠŦĀĠŦĠĠĠĠĊĊĠĂĊĀĊĠĠĂĀĠĀŦĠŦĊĠŦĠŦĠĊŦĠĊŦĊĂĀŦĠŦĊŦŦĀŦĀĊĊŦĠĠĀĊĀĠĠĊĠ	6486
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Query	7747	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	7806
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Query	7807	AGGAGGTCAAAGCAGCGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	7866
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Sbjct	6787	GTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	6846
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Sbjct	6847	ACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTCTGCGTTCAGC	6906
Query	8047	CTGAGAAGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCG	8106
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Sbjct	6967	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCGTGATGGGAA	7026
Query	8167	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGA	8226
Sbjct	7027	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGA	7086
Query	8227	AGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCA	8286
Sbjct	7087	AGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACTCCACAGTCA	7146
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Query	8587	TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCGGGGG	8646
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Sbjct	7627	CAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCAGTCAATTCCTGGC	7686
Query	8827	TAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATT	8886
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                                                    8451
Sbjct
Score = 1062 bits (575), Expect = 0.0 Identities = 584/588 (99\%), Gaps = 2/588 (0\%)
Strand=Plus/Plus
        GCCAGCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT
Query
        ĠĊĊŔĠĊĊĊĊĊŢĠŔŢĠĠĠĠĠĊĠŔĊŔĊŢĊĊŔĊĊŔŢ~ŔĠŔŢĊŔĊŢĊĊĊĊŢĠŢĠŔĠĠŔŔĊŢŔĊŢ
                                                     59
Sbjct
Query
     60
        GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
                                                     119
        60
                                                     119
Sbjct
        ccccccccCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA
                                                     179
Query
     120
        CCCCCCTCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCCA
     120
                                                     179
Sbjct
        GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC
Query
     180
        Sbjct
     180
        GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC
                                                     239
        CGCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG
                                                     299
Query
     240
        240
                                                     299
Sbjct
     300
        GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA
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Query
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300
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                                                     359
Sbjct
     360
        CCTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCAAGTTCCCGGGT
                                                     419
Query
        360
Sbjct
                                                     419
        GGCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTG
     420
                                                     479
Query
        GGCGGTCÁGÁTCGTTGGTGGÁGTTTÁCTTGTTGCCGCGCÁGGGGCCCTÁGÁTTGGGTGTG
Sbjct
     420
                                                     479
     480
        CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCC
                                                     539
Query
        480
                                                     539
Sbjct
Query
     540
        AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT
        540
        AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT
                                            587
Sbjct
```

>emb|AX663429.1| Sequence 3 from Patent WO02088338 Length=8451

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

Score = 1.208e+04 bits (6542), Expect = 0.0 Identities = 6742/6837 (98%), Gaps = 20/6837 (0%) Strand=Plus/Plus 2769  $\tt CTGGACACGGAGGTGGCCGCGTCGTGTGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTG$ 2828 Query 1688 Sbjct 1629 2829 ACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 2888 Query ACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT Sbjct 1689 1748 Query 2889 CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccTCAACGTCCggqqqqq 2948 1749 ĊŢĠĊĊĂĠĂĠŢĀĠĂĂĠĊĠĊĂĂĊŢĠĊĂĊĠŢĠŢĠĠĠŢŢĊĊĊĊĊĊŢĊĂĂĊĠŢĊĊĠĠĠĠĠĠĠ 1808 Sbjct 2949 CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACC 3008 Query CGCGATGCCGTCATCTTACTCATGTGTGTTGTACACCCGACTCTGGTATTTGACATCACC 1809 1868 Sbjct 3009 AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC 3068 Query Sbjct 1869 1928 3069 CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC Query 3127 1929 1987 Sbjct 3128 CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT 3187 Query 1988 CGGAGGTCATTACGTĠCÁAÁTĠGCĆÁTCÁTCAÁGŤŤĠĠGĠGCGCŤŤÁĊŤĠĠĆÁĊĆŤÁŤĠŤ 2047 Sbjct 3188 GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT 3247 Query 2048 2107 Sbjct GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA 3248 3307 Query GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA 2108 2167 Sbjct TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA Query 3308 3367 Sbjct 2168 TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA 2227 GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCCCCAT Query 3368 3427 2228 2287 Sbjct 3428 CACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG 3487 Query 

01- '	2200		2247
Sbjct	2288	CACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	2347
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	2348	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	2407
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	2408	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	2467
Query	3608	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	2468	ĊATĊĠĊĀTĊĀĊĊĊĀĀĠĠĠŦĊĊŦĠŦĊĀŦĊĊĀĠĀŦĠŦĀĊĊĀĀŦĠŦĠĠĀĊĊĀĀĠĀĊĊŦŦĠŦ	2527
Query	3668	GGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	2528	gggctggcccgctcctcaaggttcccgctcattgacaccctgcacctgcgctcctcgga	2587
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2588	CCTTTACCTGGTCACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	2647
Query	3788	GGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT	3847
Sbjct	2648	GGGTAGCCTGCTTTTGCCCCGGCCCATTTCCTACCTAAAAGGCTCCTCGGGGGGTCCGCT	2707
Query	3848	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	2708		2767
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	2768		2827
Query	3968	GTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	4027
Sbjct	2828		2887
Query	4028	TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087
Sbjct	2888	TGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	2947
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2948	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	3007
Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	3008	CAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	3067
Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	3068	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGCGC	3127
Query	4268	TTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4327
Sbjct	3128	TTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	3187
Query	4328	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGG	4387
Sbjct	3188	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGAGATTGGTTGTGCTCGCCACTGC	3247
Query	4388	TACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	3248	TACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	3307
Query	4448	CACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	4506
Sbjct	3308		3366
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	3367	GACATCTCATCTTCTCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	3426
Query	4567	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4626

Sbjct	3427	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	3486
Query	4627	GCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	3487	ĠĊĠĠĊĠĂŦĠŦŦĠŦĊĠŦĊĠŦĠŦĊĠĀĊĊĠĂŦĠĊŦĊŦĊĀŦĠĀĊŦĠĠĊŦŦŦĀĊĊĠĠĊĠĀĊŦŦĊĠ	3546
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTA	4746
Sbjct	3547	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTA	3606
Query	4747	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	4806
Sbjct	3607	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG	3666
Query	4807	GCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGGAGCGCCCCT	4866
Sbjct	3667	GCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCT	3726
Query	4867	CCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	3727	CCGGCATGTTCGACTCCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	3786
Query	4927	AGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	4986
Sbjct	3787	AGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	3846 5046
Query	4987 3847	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	3906
Sbjct Query	5047	ATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	5106
Sbjct	3907	ATGCCCACTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT ATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	3966
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	3967		4026
Query	5167	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	4027	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	4086
Query	5227	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	5286
Sbjct	4087		4146
Query	5287	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	5346
Sbjct	4147	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	4206
Query	5347	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5406
Sbjct	4207	ctctggccgcgtattgcctgtcaacaggctgcgtggtcatagtggcaggattgtcttgt	4266
Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGGGTTCTCTACCAGGAGTTCGATGAGATGG	5466
Sbjct	4267	ĊĊĠĠĠĂĀĠĊĊĠĠĊĀĀŤŤĀŤĀĊĊŤĠĀĊĀĠĠĠĀĠŦŤĊŤĀĊĊĀĠĠĀĠŤŤĊĠĀŤĠĀĠĀŤĠĠ	4326
Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	4327	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	4386
Query	5527	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	4387	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	4446
Query	5587	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	4447	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGAATTTCA	4506
Query	5647	TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCTGGTAACCCCGCCATTGCTT	5706
Sbjct	4507	TCAGTGGGATACAATATTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4566
Query	5707	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	5766

Sbjct	4567	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	4626
	5767	TCAACATATTggggggTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Query Sbjct	4627	TCAACATATTGGGGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACCGCCT	4686
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4687		4746
Query	5887	TGGACATTCTTGCAGGGTATGGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4747		4806
Query	5947	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	6006
Sbjct	4807		4866
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	6066
Sbjct	4867		4926
Query	6067	GCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	4927		4986
Query	6127	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTGCCATACTCA	6186
Sbjct	4987		5046
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	5047		5106
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	5107		5166
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTG	6366
Sbjct	5167		5226
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	5227		5286
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	5287	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	5346
Query	6487	CTAGGACCTGCAGGACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	6546
Sbjct	5347	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	5406
Query	6547	CCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	5407	cctgtactccccttcctgcgccgaactataagttcgcgctgtggagggtgtctgcagagg	5466
Query	6607	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	5467	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	5526
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTCACAGAATTGGACGGGGTGC	6726
Sbjct	5527	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	5586
Query	6727	GCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	6786
Sbjct	5587	GCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	5646
Query	6787	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	6846
Sbjct	5647	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	5706
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906

Sbjct	5707	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	5766
Query	6907	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	5767	ġĠŦŦĠĠĊĠĂĠĂĠĠĠŦĊĂĊĊĊĊŦŦĊŦĂŦĠĠĊĊĂĠĊŦĊĊŦĊĠĠĊĊĂĠĊĊĂ	5826
Query	6967	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	5827	ĊĂŦĊŦĊŦĊĀĀĠĠĊĀĀĊŦŦĠĊĀĊĊĠĊĊĀĀĊĊĀŦĠĀĊŦĊĊĊŦĠĀĊĠĊĊĠĀĠĊŦĊĀŦĀĠĀĠĠ	5886
Query	7027	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	5887	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	5946
Query	7087	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	7146
Sbjct	5947	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	6006
Query	7147	CCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGG	7206
Sbjct	6007	CCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTTTGGG	6066
Query	7207	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	7266
Sbjct	6067	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC CTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGA	6126 7326
Query Sbjct	7267 6127	CTGTGGTCCATGGCTGCCCGCTACCACCTCCACGTCCCCTCCTGTGCCTCCGCCTCGGA	6186
Query	7327	AAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCA	7386
Sbjct	6187		6246
Query	7387	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCT	7446
Sbjct	6247		6306
Query	7447	CTGAGCCCGCCCTTCTGGCTGaaaaaaaGACTCCGACGTTGAGTCCTATTCTTCCATGa	7506
Sbjct	6307		6366
Query	7507	ccccctGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATGGTCGACGGTCA	7566
Sbjct	6367		6426
Query	7567	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCG	7626
Sbjct	6427	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATACCTGGACAGGCG	6486
Query	7627	CACTCGTCACCCGTGCGCTGCGGAAGAACAAAACTGCCCATCAACGCACTGAGCAACT	7686
Sbjct	6487	ĊAĊŦĊĠŦĊAĊĊĊĠŦĠĊĠĊŦĠĊĠĠĀĀĠĀĀĊĀĀĀĀĀĊŦĠĊĊĊĀŦĊĀĀĊĠĊĀĊŦĠĀĠĊĀĀĊŦ	6546
Query	7687	CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	7746
Sbjct	6547	CGTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	6606
Query	7747	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	7806
Sbjct	6607	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	6666
Query	7807	AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	7866
Sbjct	6667	AGGAGGTCAAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	6726
Query	7867	GCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCC	7926
Sbjct	6727	GCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCC	6786
Query	7927	GTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	7986
Sbjct	6787	GTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	6846
Query	7987	ACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGC	8046

Sbjct	6847	ACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTCTGCGTTCAGC	6906
Query	8047	CTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCG	8106
Sbjct	6907	ĊŤĠĂĠĂĂĠĠĠĠĠĠŤĊĠŤĂĂĠĊĊĂĠĊŤĊĠŤĊŤĊĂŤĊĠŤĠŤŤĊĊĊĊĠĂĊĊŤĠĠĠĊĠŤĠĊĠĊĠ	6966
Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAA	8166
Sbjct	6967	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCCTGGCCGTGATGGGAA	7026
Query	8167	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGA	8226
Sbjct	7027	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGA	7086
Query	8227	AGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCA	8286
Sbjct	7087	AGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACTCCACAGTCA	7146
Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	8346
Sbjct	7147	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	7206 8406
Query	8347 7207	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	7266
Sbjct	8407	CAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAACTAGCT	8466
Query Sbjct	7267	CAAGGGGGAAAACTGCGCTATCGCAGGTGCCGCGAGCGGCGTACTGACAACTAGCT  CAAGGGGGGAAAACTGCGCTATCGCAGGTGCCGCGAGCGGCGTACTGACAACTAGCT	7326
Query	8467	GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCC	8526
Sbjct	7327		7386
Query	8527	AGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGG	8586
Sbjct	7387		7446
Query	8587	TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8646
Sbjct	7447		7506
Query	8647	cccccggggacccccCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA	8706
Sbjct	7507	CCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA	7566
Query	8707	ACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTA	8766
Sbjct	7567	ACGTGTCAGTCGCCCACGACGCCGCTGGAAAAAGGGTCTACTACCTTACCCGTGACCCTA	7626
Query	8767	CAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGC	8826
Sbjct	7627	ĊAACCCCCTCGCGAGAGCCGCGTGGGAGACAGACACACTCCAGTCAATTCCTGGC	7686
Query	8827	TAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATT	8886
Sbjct	7687	TAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATT	7746
Query	8887	TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACG	8946
Sbjct	7747	TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACG	7806
Query	8947	GAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	9006
Sbjct	7807	CAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	7866
Query	9007	TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCC	9066
Sbjct	7867	TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAGTCAATAGGGTGGCCGCATGCC	7926
Query Sbjct	9067 7927	TCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCG	9126 7986
Query	9127	CTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG	9186
биет й	7141		2100

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CTAGGCTTCTGTCCAGGGGAGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGG
                                                  8046
Sbjct
    9187
        CAGTAAGAACAAAGCTCAAACTCCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCG
                                                  9246
Query
        8047
                                                  8106
Sbjct
    9247
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                                                  9306
Query
        Sbjct
    8107
                                                  8166
    9307
        CCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC
                                                  9366
Query
        8167
                                                  8226
Sbjct
        CCAACCGATGA-AGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTT-CCTGttttttt
Query
    9367
                                                  9424
        1 11
                                      8227
        ĊĊĂĂĊĊĠĠŤĠĂĊĂ~~ŤŤ~~~ŤCC~ĊŦŦŤŦŦŦŦŦŦŤŤŤŦŦŦŦŦŤŤŤŤĊĊC~ŤŤŤŤŤŤ
                                                  8278
Sbjct
    9425
        9484
Query
        8279
                                                  8334
Sbjct
        tttt--toocttcttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAAG
                                                  9542
Query
    9485
        8335
                                                  8394
Sbjct
        GTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT
Query
    9543
                                                9599
        Sbjct
    8395
                                                8451
Score = 1062 bits (575), Expect = 0.0 Identities = 584/588 (99%), Gaps = 2/588 (0%)
Strand=Plus/Plus
    1
        GCCAGCCCCTGATGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTACT
                                                 59
Query
        GCCÁGCCCCTGÁTGGGGGCGÁCÁCTCCÁCCÁT-ÁGÁTCÁCTCCCCTGTGAGGAÁCTÁCT
    1
                                                 59
Sbjct
        GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
Query
    60
        60
        GTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGGA
                                                 119
Sbjct
Query
    120
        179
       120
                                                 179
Sbjct
        GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC
    180
                                                 239
Query
        GGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCCC
    180
                                                 239
Sbjct
    240
        CGCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATAG
                                                 299
Query
        Sbjct
    240
                                                 299
        GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA
Query
    300
                                                 359
        300
        GGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACCATGAGCACGAATCCTAAA
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Sbjct
    360
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Query
        CCTCAAAGAAAACCAAACGTAACACCAACCGTCGCCCACAGGACGTCGAGTTCCCGGGT
                                                 419
Sbjct
    360
Query
    420
        GGCGGTCAGATCGTTGGTGGAGTTTACTTGTTGCCGCGCAGGGGCCCTAGATTGGGTGTG
                                                 479
        420
                                                 479
Sbjct
    480
        \tt CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGAGGTAGACGTCAGCCTATCCCC
                                                 539
Query
        CGCGCGACGAGGAAGACTTCCGAGCGGTCGCAACCTCGTGGTAGACGTCAGCCTATCCCC
    480
                                                 539
Sbjct
    540
       AAGGCACGTCGGCCCGAGGGCAGGACCTGGGCTCAGCCCGGGTACCCT
                                         587
Query
        Sbjct
    540
                                         587
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>gb|EA372965.1| Sequence 1 from patent US 7314710 Length=6609 Score = 1.188e+04 bits (6435), Expect = 0.0 Identities = 6553/6611 (99%), Gaps = 4/6611 (0%) Strand=Plus/Plus 2769 CTGGACACGGAGGTGGCCGCGTCGTGTGGCGCGTTGTTCTTGTCGGGTTAATGGCGCTG 2828 Query CTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTG 60 Sbjct 1 ACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT Query 2829 2888 ACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT Sbjct 61 120 2889 CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTcccccccTCAACGTCCqqqqqqq 2948 Query 121 180 Sbjct 2949 CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACC 3008 Query 240 Sbjct 181 3009 3068 Query 241 300 Sbjct 3069 CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC 3127 Query 301 359 Sbjct Query 3128 CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT 3187 CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTGGGGGCGCTTACTGGCACCTATGT Sbjct 360 419 GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT Query 3188 3247 GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT 420 479 Sbjct GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA 3307 Query 3248 Sbjct 480 GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA 539 Query 3308 TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA 3367 540 599 Sbjct GATACTGCTTGGGCCAGCCGACGGATGGTCTCCAAGGGGTTGAGGTTGCTGGCGCCCAT 3368 Query 3427 Sbjct 600 GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCCCCAT 659 3428 CACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG 3487 Query Sbjct 660 719 Query 3488 CCGGGACAAAACCAAGTGGAGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT 3547 CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT 779 720 Sbjct 3548 CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC 3607 Query 780 CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC 839 Sbjct Query 3608 CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT 3667 840 899 Sbjct GGGCTGGCCCGCTCCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA 3727 3668 Query GGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGA 900 959 Sbjct 3728 CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGAGGTGATAGCAG 3787 Query Sbjct 960 1019 GGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT Query 3788 3847

Sbjct	1020	GGGTAGCCTGCTTTTGCCCCGGCCCATTTCCTACCTAAAAGGCTCCTCGGGGGGTCCGCT	1079
Query	3848	GTTGTGCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	1080	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT	1139
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	1140	GGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGATCCCCGGT	1199
Query	3968	GTTCACGGACAACTCCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	4027
Sbjct	1200	GTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	1259
Query	4028	TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087
Sbjct	1260	TGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	1319
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	1320	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	1379
Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	1380	CAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	1439
Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	1440	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGCGC	1499
Query	4268	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4327
Sbjct	1500	TTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	1559
Query	4328	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACTGC	4387
Sbjct	1560	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGG	1619
Query	4388	TACCCCTCCGGGCTCCGTCACTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	1620	TACCCCTCCGGGCTCCGTCACTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	1679
Query	4448	CACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGAA	4506
Sbjct	1680	CACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	1738
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	1739	GACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	1798
Query	4567	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4626
Sbjct	1799	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	1858
Query	4627	GCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	1859	GCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	1918
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTA	4746
Sbjct	1919	actotgtgatagactgcaacacgtgtgtcactcagacagtcgatttcagccttgacccta	1978
Query	4747	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	4806
Sbjct	1979	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG	2038
Query	4807	GCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCT	4866
Sbjct	2039	GCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCT	2098
Query	4867	CCGGCATGTTCGACTCGTCCGTCCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	2099	CCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	2158
Query	4927	AGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	4986

Sbjct	2159	AGCTCATGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	2218
Query	4987	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5046
Sbjct	2219	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACCCATATAG	2278
Query	5047	ATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	5106
Sbjct	2279	ATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGGAGAACTTTCCTTACCTGGTAGCGT	2338
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	2339	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGA	2398
Query	5167	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	2399	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	2458
Query	5227	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	5286
Sbjct	2459	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	2518
Query	5287	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	5346
Sbjct	2519	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	2578
Query	5347	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5406
Sbjct	2579	ĊŢĊŢĠĠĊĠĊĠŢŔŢŢĠĊĊŢĠŢĊĸĸĊĸĠĠĊŢĠĊĠŢĠĠŢĊĸŢĸĠŢĠĠĊĸĠĠĸŢŢĠŢĊŢŢĠŢ	2638
Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGGGTTCTCTACCAGGAGTTCGATGAGATGG	5466
Sbjct	2639	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGG	2698
Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	2699	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	2758
Query	5527	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	2759	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	2818
Query	5587	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	2819	ĊŢĠŢĊĊĀĠĀĊĊĀĀĊŢĠĠĊĀĠĀĀĀĊŢĊĠĀĠĠŢĊŢŢĊŢĠĠĠĊĠĀĀĠĊĀĊĀŢĠŢĠĠĀĀŢŢĊĀ	2878
Query	5647	TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	2879	TCAGTGGGATACAATATTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	2938
Query	5707	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	5766
Sbjct	2939	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	2998
Query	5767	TCAACATATTgggggggTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	2999	TCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGCCGCTACCGCCT	3058
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	3059	TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	3118
Query	5887	TGGACATTCTTGCAGGGTATGGCGGGGGGGGGGGGGGGG	5946
Sbjct	3119	tggacattcttgcagggtatggcgcggggcgtggcggagctcttgtagcattcaagatca	3178
Query	5947	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	6006
Sbjct	3179	tgagcggtgaggtcccctccacggaggacctggtcaatctgctacccgccatcctctcgc	3238
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	6066
Sbjct	3239	ctggagcccttgtagtcggtgtggtctgcgcagcaatactgcgccggcacgttggcccgg	3298
Query	6067	GCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126

Sbjct	3299	GCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	3358
Query	6127	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6186
Sbjct	3359	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTGCCATACTCA	3418
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	3419	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCTCGGAGTGTA	3478
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	3479	ccactccatgctccggctcctggctaagggacatctgggactggatatgcgaggtgctga	3538
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTG	6366
Sbjct	3539	ĠĊĠAĊŦŦŦĀĀĠĀĊĊŦĠĠĊŦĠĀĀĀĠĊĊĀĀĠĊŦĊĀŦĠĊĊĀĊĀĀĊŦĠĊĊŦĠĠĠĀŦŦĊĊĊŦŦŦĠ	3598
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	3599	TGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	3658
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	3659	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	3718
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	6546
Sbjct	3719	ctaggacctgcaggaacatgtggagtgggacgttccccattaacgcctacaccacgggcc	3778
Query	6547	CCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	3779	cctgtactccccttcctgcgccgaactataagttcgcgctgtggagggtgtctgcagagg	3838
Query	6607	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	3839	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	3898
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	6726
Sbjct	3899	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	3958
Query	6727	GCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	6786
Sbjct	3959	GCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	4018
Query	6787	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	6846
Sbjct	4019	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	4078
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906
Sbjct	4079	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	4138
Query	6907	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	4139	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	4198
Query	6967	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	4199	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	4258
Query	7027	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	4259	CTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	4318
Query	7087	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	7146
Sbjct	4319	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	4378
Query	7147	CCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGG	7206
Sbjct	4379	CCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTTTGGG	4438
Query	7207	CGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	7266

Sbjct	4439	CGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	4498
Query	7267	CTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCCTCTGTGCCTCCGCCTCGGA	7326
Sbjct	4499	CTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGA	4558
Query	7327	AAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCA	7386
Sbjct	4559	AAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTAC	4618
Query	7387	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACAACATCCT	7446
Sbjct	4619	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGACAACATCCT	4678
Query	7447	CTGAGCCCGCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTTCCATGC	7506
Sbjct	4679	CTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGC	4738
Query	7507	cccctggagggagcctgggatccggatctcagcgacggtcatggtcgacggtca	7566
Sbjct	4739	CCCCCTGGAGGGGAGCCTGGGGATCCGGATTTCAGCGACGGTCATGGTCGACGGTCA	4798
Query	7567	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCAATGTCTTATTCCTGGACAGGCG	7626
Sbjct	4799	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATACCTGGACAGGCG	4858
Query	7627	CACTCGTCACCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACT	7686
Sbjct	4859	CACTCGTCACCCCGTGCGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACT	4918
Query	7687	CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	7746
Sbjct	4919	CGTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	4978
Query	7747	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	7806
Sbjct	4979	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	5038
Query	7807	AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	7866
Sbjct	5039	aggaggtcaaagcagcggcgtcaaaagtgaaggctaacttgctatccgtagaggaagctt	5098
Query	7867	GCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCC	7926
Sbjct	5099	ĠĊAĠĊĊŢĠAĊĠĊĊĊĊAĊAŢŢĊAĠĊĊAAAŢĊĊAAĠŢŢŢĠĠĊŢAŢĠĠĠĠĊAAAAĠAĊĠŢĊĊ	5158
Query	7927	GTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAGACCTTCTGGAAG	7986
Sbjct	5159	GTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	5218
Query	7987	ACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGC	8046
Sbjct	5219	a cagtigita a cacca a taga cacta to a to a to a caga ga cacca a cacca a cacca cacca a cacca  5278	
Query	8047	CTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCG	8106
Sbjct	5279	ctgagaagggggtcgtaagccagctcgtctcatcgtgttccccgacctgggcgtgcgcg	5338
Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCTGGCCGTGATGGGAA	8166
Sbjct	5339	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAACTCCCCTGGCCGTGATGGGAA	5398
Query	8167	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGA	8226
Sbjct	5399	gctcctacggattccaatactcaccaggacagcgggttgaattcctcgtgcaagcgtgga	5458
Query	8227	AGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCA	8286
Sbjct	5459	AGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACTCCACAGTCA	5518
Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	8346
Sbjct	5519	CTGAGAGCGACATCCGTACGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	5578
Query	8347	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	8406

Sbjct	5579		5638
Query	8407	CAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCT	8466
Sbjct	5639	CAAGGGGGAAAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCT	5698
Query	8467	GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCC	8526
Sbjct	5699		5758
Query	8527	AGGACTGCACCATGCTCGTGTGGGGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGG	8586
Sbjct	5759	AGGACTGCACCATGCTCGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCGGGGG	5818
Query	8587	TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCCG	8646
Sbjct	5819	TCCAGGAGGACGCGGCGAGCCTGAGAGCCTTTACGGAGGCTATGACCAGGTACTCCGCCC	5878
Query	8647	ccccggggacccooACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA	8706
Sbjct	5879	CCCCGGGGACCCCCACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCCTCCA	5938
Query	8707	ACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGACCCTA	8766
Sbjct	5939	ACGTGTCAGTCGCCCACGACGCGCTGGAAAAAGGGTCTACTACCTTACCCGTGACCCTA	5998
Query	8767	CAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCCTGGC	8826
Sbjct	5999	CAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCACACACTCCAGTCAATTCCTGGC	6058
Query	8827	TAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATT	8886
Sbjct	6059	TAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACCCATT	6118
Query	8887	TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACG	8946
Sbjct	6119	TCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATCTACG	6178
Query	8947	GAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	9006
Sbjct	6179	CAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTCCATGGCC	6238
Query	9007	TCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGTGGCCGCATGCC	9066
Sbjct	6239	tcagcgcattttcactccacagttactctccaggtgaagtcaatagggtggccgcatgcc	6298
Query	9067	TCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCGGAGCGTCCGCG	9126
Sbjct	6299	TCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGGCCCGGAGCGTCCGCG	6358
Query	9127	CTAGGCTTCTGTCCAGAGGAGGGCAGGGCTGCCATATGTGGCAAGTACCTCTTCAACTGGG	9186
Sbjct	6359	ĊŦĀĠĠĊŦŦĊŦĠŦĊĊĀĠĠĠĠĀĠĠĊĀĠĠĊŦĠĊĊĀŦĀŦĠŦĠĠĊĀĀĠŦĀĊĊŦĊŦŦĊĀĀĊŦĠĠĠ	6418
Query	9187	CAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCG	9246
Sbjct	6419	CAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCTGGACTTGTCCG	6478
Query	9247	GTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGC	9306
Sbjct	6479	GTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTCTCATGCCCGGC	6538
Query	9307	CCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCATCTACCTCCTCC	9366
Sbjct	6539	ccccctcctcctcctcctcctcctcctcctcctcctcct	6598
Query	9367	CCAACCGATGA 9377	
Sbjct	6599	CCAACCGGTGA 6609	

>dbj|DD070076.1| PROCESS FOR THE REPLICATION OF THE HEPATITIS C VIRUS Length=6609

Score = 1.188e+04 bits (6435), Expect = 0.0

Identities = 6553/6611 (99%), Gaps = 4/6611 (0%)

Strand=Plus/Plus CTGGACACGGAGGTGGCCGCGTCGTGGCGCGTTGTTCTTGTCGGGTTAATGGCGCTG 2769 2828 Query Sbjct CTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTG 2829 ACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT 2888 Query ACTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT Sbjct 61 120 CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTToccadaaTCAACGTCCggggggg Query 2889 2948 Sbjct 121 180 2949 CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACC 3008 Query 181 240 Sbjct Query 3009 AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC 3068 241 300 Sbjct 3069 3127 Query 301 359 Sbjct 3128 CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT 3187 Query 360 419 Sbjct GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT Query 3188 3247 Sbjct 420 479 GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA Query 3248 3307 GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA 480 539 Sbjct TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA 3367 Query 3308 Sbjct 540 TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA 599 Query 3368 GATACTGCTTGGGCCAGCCGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT 3427 600 659 Sbjct CACGGCGTACGCCCAGCAGACGAGGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG 3428 3487 Query Sbjct 660 CACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG 719 3488 CCGGGACAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT 3547 Query Sbjct 720 779 CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC Query 3548 3607 CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC 780 839 Sbjct 3608 CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT 3667 Query 840 CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT 899 Sbjct Query 3668 GGGCTGGCCCGCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA 3727 900 959 Sbjct  $\verb|CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG| \\$ 3787 3728 Query Sbjct 960 1019 3788 GGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGTCCGCT 3847 Query Sbjct 1020 1079 GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT Query 3848 3907

Sbjct	1080		1139
Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
Sbjct	1140		1199
Query	3968	GTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	4027
Sbjct	1200		1259
Query	4028	TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087
Sbjct	1260	TGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	1319
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	1320	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	1379
Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	1380	caaggcccatgggtcgatcctaatatcaggaccggggtgagaacaattaccactggcag	1439
Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	1440	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGCGC	1499
Query	4268	TTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4327
Sbjct	1500	TTATGACATAATTTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	1559
Query	4328	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGG	4387
Sbjct	1560	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGG	1619
Query	4388 1620	TACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447 1679
Sbjct Query	4448	CACCGGAGAGATCCCCTTT-TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	4506
Sbjct	1680	CACCGGAGAGATCCCCTTT=TACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA 	1738
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	1739		1798
Query	4567	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4626
Sbjct	1799		1858
Query	4627	GCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	1859	GCGGCGATGTTGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	1918
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTA	4746
Sbjct	1919	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTA	1978
Query	4747	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	4806
Sbjct	1979	CCTTTACCATTGAGACAACCACGCTCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG	2038
Query	4807	GCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCT	4866
Sbjct	2039	ĠĊĀĠĠĀĊŦĠĠĊĀĠĠĠĠĀĀĠĊĊĀĠĠĊĀŦĊŦĀĊĀĠĀŦŦŤĠŦĠĠĊĀĊĊĠĠĠĠĠĀĠĊĠĊĊĊŦ	2098
Query	4867	CCGGCATGTTCGACTCGTCCGTCCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
Sbjct	2099	CCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	2158
Query	4927	AGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	4986
Sbjct	2159	AGCTCATGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	2218
Query	4987	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5046

Sbjct	2219		2278
Query	5047	ATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	5106
Sbjct	2279		2338
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	2339		2398
Query	5167	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	2399	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	2458
Query	5227	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	5286
Sbjct	2459	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	2518
Query	5287	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	5346
Sbjct	2519	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	2578
Query	5347	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5406
Sbjct	2579	ĊŢĊŢĠĠĊĠĊĠĊĠŢŖŢĠĊĊŢĠŢĊĸĸĊĸĠĠĊŢĠĊĠŢĠĠŢĊĸŢĸĠŢĠĠĊĸĠĠĸŢŢĠŢĊŢŢĠŢ	2638
Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGGGTTCTCTACCAGGAGTTCGATGAGATGG	5466
Sbjct	2639	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGG	2698
Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	2699	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	2758
Query	5527	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	2759	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	2818
Query	5587	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	2819	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGAATTTCA	2878
Query	5647	TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	2879	TCAGTGGGATACAATATTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	2938 5766
Query Sbjct	5707 2939	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	2998
Query	5767	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT  TCAACATATTqqqqqqTGGGTGGCTGCCCAGCTCGCCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	2999	TCAACATATTGGGGGGTGGGTGGCTGCCAGCTCGCCGCCCCGGTGCCGCTACCGCCT	3058
Query	5827	TIGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	3059		3118
Query	5887	TGGACATTCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	3119		3178
Query	5947	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	6006
Sbjct	3179		3238
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	6066
Sbjct	3239		3298
Query	6067	GCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	3299	GCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	3358
Query	6127	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCCGCGTCACTGCCATACTCA	6186

Sbjct	3359		3418
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246
Sbjct	3419		3478
Query	6247	CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	3479		3538
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTG	6366
Sbjct	3539		3598
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	3599	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	3658
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	3659	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	3718
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	6546
Sbjct	3719	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	3778
Query	6547	CCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	3779	cctgtactccccttcctgcgccgaactataagttcgcgctgtggagggtgtctgcagagg	3838
Query	6607	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	3839	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	3898
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGTGC	6726
Sbjct	3899	ÁTCTTÁÁATGCCCGTGCCÁGATCCCÁTCGCCCGAATTTTTCÁCÁGÁATTGGÁCGGGGTGC	3958
Query	6727	GCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	6786
Sbjct	3959	GCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	4018
Query	6787	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	6846
Sbjct	4019	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	4078
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906
Sbjct	4079	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	4138
Query	6907	GGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	4139	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	4198
Query	6967	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	4199	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	4258
Query	7027	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	4259	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	4318
Query	7087	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	7146
Sbjct	4319	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	4378
Query	7147	CCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGG	7206
Sbjct	4379	CCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTTTGGG	4438
Query	7207	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	7266
Sbjct	4439	CGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	4498
Query	7267	CTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTCGGA	7326

Sbjct	4499		4558
Query	7327	AAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCA	7386
Sbjct	4559		4618
Query	7387	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACATCCT	7446
Sbjct	4619		4678
Query	7447	CTGAGCCCGCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTTCCATG	7506
Sbjct	4679	CTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGC	4738
Query	7507	ecocotggaggggagcctgggatccggatctcagcgacggtcatggtcgacggtca	7566
Sbjct	4739	CCCCCTGGAGGGGAGCCTGGGGATCCGGATTTCAGCGACGGTCATGGTCGACGGTCA	4798
Query	7567	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCG	7626
Sbjct	4799	gtagtggggccgacacggaagatgtcgtgtgctgctcaatgtcttatacctggacaggcg	4858
Query	7627	CACTCGTCACCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACT	7686
Sbjct	4859	CACTCGTCACCCCGTGCGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACT	4918
Query	7687	CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	7746
Sbjct	4919	CGTTGCTACGCCATCACAATCTGGTATATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	4978
Query	7747	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	7806
Sbjct	4979	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	5038
Query	7807	AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	7866
Sbjct	5039	AGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAGCTT	5098
Query	7867	GCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCC	7926
Sbjct	5099	GCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACGTCC	5158
Query	7927	GTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAGACCTTCTGGAAG	7986
Sbjct Querv	5159 7987	GTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	5218 8046
Sbjct	5219	ACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGC	5278
Query	8047	CTGAGAAGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGC	8106
Sbjct	5279		5338
Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAA	8166
~ <sup>1</sup> Sbjct	5339		5398
Query	8167	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGA	8226
Sbjct	5399		5458
Query	8227	AGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCA	8286
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Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	8346
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Sbjct
>emb|AX663427.1| Sequence 1 from Patent WO02088338
Length=6609
Score = 1.188e+04 bits (6435), Expect = 0.0 Identities = 6553/6611 (99%), Gaps = 4/6611 (0%)
Strand=Plus/Plus
Query 2769 CTGGACACGGAGGTGGCCGCGTCGTGTGGCGGCGTTGTTCTTGTCGGGTTAATGGCGCTG
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Sbjct	1		60
Query	2829	ACTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTT	2888
Sbjct	61		120
Query	2889	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTeescaatCAACGTCCggggggg	2948
Sbjct	121	CTGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTCCCCCCCTCAACGTCCGGGGGGG	180
Query	2949	CGCGATGCCGTCATCTTACTCATGTGTGTAGTACACCCGACCCTGGTATTTGACATCACC	3008
Sbjct	181	CGCGATGCCGTCATCTTACTCATGTGTGTTGTACACCCGACTCTGGTATTTGACATCACC	240
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	3068
Sbjct	241	ÄÄÄČTÄČTČČTĠĠĊĊĂŢĊŢŢĊĠĠĂĊĊĊŢŢŢĠĠĂŢŢĊŢŢĊĀĀĠĊĊĀĠŢŢŢĠŢŢŢĀĀĀĠŢĊ	300
Query	3069	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	301	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGATGA-C	359
Query	3128	CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
Sbjct	360	ĊĠĠĀĠĠŤĊĀŤŤĀĊĠŤĠĊĀĀĀŤĠĠĊĊĀŤĊĀŤĊĀĀĠŤŤĠĠĠĠĠĊĠĊŤŤĀĊŤĠĠĊĀĊĊŤĀŤĠŤ	419
Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT	3247
Sbjct	420	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT	479
Query	3248	GGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	480	GGCTGTGGAACCAGTCGTCTTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	539
Query	3308	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA	3367
Sbjct	540	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA	599
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCCCCAT	3427
Sbjct	600	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	659
Query	3428	CACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	660	CACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	719
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	720	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	779
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
Sbjct	780	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	839
Query	3608	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	840	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	899
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Sbjct	900	GGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGCACCTGCGGCTCCTCGGA	959
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	960	CCTTTACCTGGTCACGAGGCACGCCGACGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	1019
Query	3788	GGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGGTCCGCT	3847
Sbjct	1020	GGGTAGCCTGCTTTTGCCCCGGCCCATTTCCTACCTAAAAGGCTCCTCGGGGGGTCCGCT	1079
Query	3848	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT	3907
Sbjct	1080	GTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTGCACCCGTGGAGT	1139
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Sbjct	1140	GGCCAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGATCCCCGGT	1199
Query	3968	GTTCACGGACACTCCTCCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	4027
Sbjct	1200	GTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	1259
Query	4028	TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087
Sbjct	1260	TGCTCCCACCGGCAGTGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	1319
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	1320	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	1379
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Sbjct	1380	CAAGGCCCATGGGGTCGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	1439
Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	1440	ccccatcacgtactccacctacggcaagttccttgccgacggcgggtgctcaggaggcgc	1499
Query	4268	TTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4327
Sbjct	1500	TTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	1559
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Sbjct	1560	ĊĠĠĊŔĊŤĠŤĊĊŤŤĠŔĊĊŔŔĠĊŔĠŔĠŔĊŤĠĊĠĠĠĠĠĠĠĠĠŔŖŔŦŤĠĠŤŤĠŤĠĊŤĊĠĊĊŔĊŤĠĊ	1619
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Sbjct	1680	CACCGGAGAGATCCC-TTTCTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAA	1738
Query	4507	GACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	4566
Sbjct	1739	GACATCTCATCTTCTGTCACTCAAAGAAGAAGTGCGACGAGCTCGCCGCGAAGCTGGTCG	1798
Query	4567	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4626
Sbjct	1799	CATTGGGCATCAATGCCGTGGCCTACTACCGCGGACTTGACGTGTCTGTC	1858
Query	4627	GCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	4686
Sbjct	1859	GCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCG	1918
Query	4687	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTA	4746
Sbjct	1919	ACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTA	1978
Query	4747	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGG	4806
Sbjct	1979	CCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAGCGCCGGG	2038
Query	4807	GCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCT	4866
Sbjct	2039	GCAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCT	2098
Query	4867	CCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATG	4926
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Query	4927	AGCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTC	4986
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Query	4987	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5046
Sbjct	2219	CCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACCCATATAG	2278
Query	5047	ATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	5106

Sbjct	2279	ATGCCCACTTTCTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGT	2338
Query	5107	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGA	5166
Sbjct	2339	ACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGA	2398
Query	5167	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	5226
Sbjct	2399	AGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGG	2458
Query	5227	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	5286
Sbjct	2459	GCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCA	2518
Query	5287	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	5346
Sbjct	2519	TGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTG	2578
Query	5347	CTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGT	5406
Sbjct	2579	ctctggccgcgtattgcctgtcaacaggctgcgtggtcatagtgggcaggattgtcttgt	2638
Query	5407	CCGGGAAGCCGGCAATTATACCTGACAGGGGGTTCTCTACCAGGAGTTCGATGAGATGG	5466
Sbjct	2639	CCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTTCGATGAGATGG	2698
Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	2699	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	2758
Query	5527	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	2759	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	2818
Query	5587	CTGTCCAGACCAACTGGCAGAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	2819	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTCTGGGCGAAGCACATGTGGAATTTCA	2878
Query	5647	TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	2879	TCAGTGGGATACAATATTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	2938
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Sbjct	2939	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	2998
Query	5767	TCAACATATTqqqqqqgTGGGTGCCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	2999	TCAACATATTGGGGGGGTGGGTGCCCAGCTCGCCGCCCCCGGTGCCGCTACCGCCT	3058
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Sbjct	3059	TTGTGGGCGCTGGCTTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	3118
Query	5887	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	3119	TGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	3178
Query	5947	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	6006
Sbjct	3179	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTACCCGCCATCCTCTCGC	3238
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	6066
Sbjct	3239	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	3298
Query	6067	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	3299	GCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	3358
Query	6127	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6186
Sbjct	3359	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	3418
Query	6187	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246

Chia+	3419		3478
Sbjct Query	6247	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTACATCAGTGGATAAGCTCGGAGTGTA CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	6306
Sbjct	3479		3538
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTG	6366
Sbjct	3539		3598
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTATGCACACTCGCT	6426
Sbjct	3599		3658
Query	6427	GCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGTC	6486
Sbjct	3659		3718
Query	6487	CTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGCC	6546
Sbjct	3719		3778
Query	6547	CCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAGG	6606
Sbjct	3779		3838
Query	6607	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	6666
Sbjct	3839	AATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTATGACTACTGACA	3898
Query	6667	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	6726
Sbjct	3899	ATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGTGC	3958
Query	6727	GCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	6786
Sbjct	3959	GCCTACATAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAGAG	4018
Query	6787	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	6846
Sbjct	4019	TAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGTAG	4078
Query	6847	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	6906
Sbjct	4079	CCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAGAA	4138
Query	6907	GGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCGCTC	6966
Sbjct	4139	GGTTGGCGAGAGGGTCACCCCTTCTATGGCCAGCTCCTCGGCCAGCCA	4198
Query	6967	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	7026
Sbjct	4199	CATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAGAGG	4258
Query	7027	CTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	7086
Sbjct	4259	CTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGAACA	4318
Query	7087	AAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGGTCT	7146
Sbjct	4319	ÄÄGTGGTGÄTTCTGGÄTCCGCTTGTGGCÄGÄGGÄTGÄGCGGGÄGGTCT	4378
Query	7147	CCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCTGGG	7206
Sbjct	4379	CCGTACCCGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTTTGGG	4438
Query	7207	CGCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAACCAC	7266
Sbjct	4439	ĊĠĊĠĠĊĊĠĠaĊŦaĊaaĊĊĊĊĠĊŦaĠŦaĠaĠĊĠŦĠĠaaaaaaĠĊĊŦĠaĊŦaĊĠaaĊĊaĊ	4498
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Query	7327	AAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTGCCA	7386

Sbjct	4559	AAAAGCGTACGGTGGTCCTCACCGAATCAACCCTACCTAC	4618
Query	7387	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGCGACAATACGACAACATCCT	7446
Sbjct	4619	CCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATATGACAACATCCT	4678
Query	7447	CTGAGCCCGCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTATTCTTCCATGc	7506
Sbjct	4679	CTGAGCCCGCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTATTCTTCCATGC	4738
Query	7507	cccctggaggggagcctgggatccggatctcagcgacggtcatggtcgacggtca	7566
Sbjct	4739	CCCCCTGGAGGGGAGCCTGGGGATCCGGATTTCAGCGACGGTCATGGTCGACGGTCA	4798
Query	7567	GTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAGGCG	7626
Sbjct	4799	gtagtggggccgacacggaagatgtcgtgtgctcaatgtcttatacctggacaggcg	4858
Query	7627	CACTCGTCACCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACT	7686
Sbjct	4859	CACTCGTCACCCCGTGCGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCAACT	4918
Query	7687	CGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAAGGC	7746
Sbjct	4919	ĊĠŦŦĠĊŦĀĊĠĊĊĀŦĊĀĊĀĀŦĊŦĠĠŦĀŦŦŦĊĊĀĊĊĀĊŦŤĊĀĊĠĊĀĠŦĠĊŦŦĠĊĊĀĀĀĠĠĊ	4978
Query	7747	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	7806
Sbjct	4979	AGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGCTCA	5038
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Sbjct	5159	GTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGGAAG	5218
Query	7987	ACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTCAGC	8046
Sbjct	5219	ACAGTGTAACACCAATAGACACTATCATCATGGCCAAGAACGAGGTCTTCTGCGTTCAGC	5278
Query	8047	CTGAGAAGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGCGCG	8106
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Query	8107	TGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGCCGTGATGGGAA	8166
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Query	8167	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGA	8226
Sbjct	5399	GCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCGTGGA	5458
Query	8227	AGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACAGTCA	8286
Sbjct	5459	AGTCCAAGAAGACCCCGATGGGGTTCCCGTATGATACCCGCTGTTTTGACTCCACAGTCA	5518
Query	8287	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	8346
Sbjct	5519	CTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCCCAAG	5578
Query	8347 5579	CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGGCCCTCTTACCAATT	8406 5638
Sbjct		CCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACCAATT	8466
Query	8407	CAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGAGCGGCGTACTGACAACTAGCT	
Sbjct	5639	CAAGGGGGAAAACTGCGGCTATCGCAGGTGCCGCGCGAGCGGCGTACTGACAACTAGCT	5698
Query	8467	GTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGGCTCC	8526

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                                                        8586
Query
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Sbjct
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     6479
                                                        6538
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                   9377
Query
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                   6609
Sbjct
>dbj|DI052976.1|
            Hepatitis C virus epitope
Length=7310
Score = 1.170e+04 bits (6335), Expect = 0.0 Identities = 6992/7317 (95%), Gaps = 14/7317 (0%)
Strand=Plus/Plus
     1690
         CAGGCTGTCCTGAGAGGTTGGCCAGCTGCCGACGCCTTACCGATTTTGCCCAGGGCTGGG
                                                        1749
Query
         Sbjct
                                                        60
Query
     1750
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                                                        1809
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Sbjct	61	GCCCTATCAGTTATGCCAACGGAAGCGGCCCCGACCAGCGCCCCTACTGCTGGCACTACC	120
Query	1810	CTCCAAGACCTTGTGGCATTGTGCCCGCAAAGAGCGTGTGTGGCCCGGTATATTGCTTCA	1869
Sbjct	121	CCCCAAAACCTTGCGGTATTGTGCCCGCGAAGAGTGTGTGT	180
Query	1870	CTCCCAGCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCGCCTACCTA	1929
Sbjct	181	CTCCCAGCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCCCCACCTACAGCTGGG	240
Query	1930	GTGCAAATGATACGGATGTCTTCGTCCTTAACAACACCAGGCCACCGCTGGGCAATTGGT	1989
Sbjct	241	GTGAAAATGATACGGACGTCTTCGTCCTTAACAATACCAGGCCACCGCTGGGCAATTGGT	300
Query	1990	TCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCCCCTTGTG	2049
Sbjct	301	TCGGTTGTACCTGGATGAACTCAACTGGATTCACCAAAGTGTGCGGAGCGCCTCCTTGTG	360
Query	2050	TCATCGGAGGGGTGGGCAACACACCTTGCTCTGCCCCACTGATTGCTTCCGCAAACATC	2109
Sbjct	361	ŤĊĂŤĊĠĠĂĠĠĠĠĊĠĠĠĊĂĂĊĂĂĊĂĊĊĊŤĠĊAĊŤĠĊĊĊĊĂĊŤĠĂŤŤĠĊŤŤĊĊĠĊŔĂĠĊĂŤĊ	420
Query	2110	CGGAAGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATTACACCCAGGTGCATGGTCG	2169
Sbjct	421	CGGACGCCACATACTCTCGGTGCGGCTCCGGTCCCTGGATCACACCCAGGTGCCTGGTCG	480
Query	2170	ACTACCCGTATAGGCTTTGGCACTATCCTTGTACCATCAATTACACCATATTCAAAGTCA	2229
Sbjct	481	ACTACCCGTATAGGCTTTGGCATTATCCTTGTACCATCAACTACACCATATTTAAAATCA	540
Query	2230	GGATGTACGTGGGAGGGTCGAGCACAGGCTGGAAGCGGCCTGCAACTGGACGCGGGGCG	2289
Sbjct	541	GGATGTACGTGGGAGGGTCGAACACAGGCTGGAAGCTGCCTGC	600
Query	2290	AACGCTGTGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTGCTGCTGTCCACCA	2349
Sbjct	601	AACGTTGCGATCTGGAAGACAGGGACAGGTCCGAGCTCAGCCCGTTACTGCTGACCACTA	660
Query	2350	CACAGTGGCAGGTCCTTCCGTGTTCTTTCACGACCCTGCCAGCCTTGTCCACCGGCCTCA	2409
Sbjct	661	CACAGTGGCAGGTCCTCCCGTGTTCCTTCACAACCCTACCAGCCTTGTCCACCGGCCTCA	720
Query	2410	TCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTAGGGTCAAGCATCG	2469
Sbjct	721	TCCACCTCCACCAGAACATTGTGGACGTGCAGTACTTGTACGGGGTGGGGTCAAGCATCG	780
Query	2470	CGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTGCAGACGCGC	2529
Sbjct	781	CGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTGCAGACGCGC	840
Query	2530	GCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGA	2589
Sbjct	841	GCGTCTGCTCCTGCTTGTGGATGATGCTACTCATATCCCAAGCGGAGGCGGCTTTGGAGA	900
Query	2590	ACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTCCTCG	2649
Sbjct	901	ACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	960
Query	2650	TGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2709
Sbjct	961	TĠTTĊTTĊTĠĊTTTĠĊATĠĠTATTTĠAAĠĠĠTAAĠTĠĠĠTĠĊĊĊĠĠAĠĊĠĠŢĊŦAĊAĊĊŢ	1020
Query	2710	TCTACGGGATGTGGCCTCTCCTGCTCCTGCTGGCGTTGCCTCAGCGGGCATACGCAC	2769
Sbjct	1021	tctacgggatgtggcctctcctcctgctcctgttggcgttgcccagcgggcgtacgcgc	1080
Query	2770	TGGACACGGAGGTGGCCGTCGTGTGGCGCGTTGTTCTTGTCGGGTTAATGGCGCTGA	2829
Sbjct	1081	TGGACACGGAGGTGGCCGCGTCGTGTGGCGGTGTTGTTCTCGTCGGGTTGATGGCGCTGA	1140
Query	2830	CTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTC	2889
Sbjct	1141	CTCTGTCACCATATTACAAGCGCTATATCAGCTGGTGCTTGTGGTGGCTTCAGTATTTTC	1200
Query	2890	TGACCAGAGTAGAAGCGCAACTGCACGTGTGGGTTccccccCTCAACGTCCgggggggC	2949

Sbjct	1201		1260
Query	2950	GCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACC	3008
Sbjct	1261		1319
Query	3009	AAACTACTCCTGGCCATCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTC	3068
Sbjct	1320	AAATTGCTGCTGGCCGTCTTCGGACCCCTTTGGATTCTTCAAGCCAGTTTGCTTAAAGTA	1379
Query	3069	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	1380	CCCTACTTTGTGCGCGTCCAAGGCCTTCTCCGGTTCTGCGCGTTAGCGCGGAAGATGATC	1439
Query	3128	CGGAGGTCATTACGTGCAAATGGCCATCATCAAGTTAGGGGCGCTTACTGGCACCTATGT	3187
Sbjct	1440	-GGAGGCCATTACGTGCAAATGGTCATCATTAAGTTAGGGGCGCTTACTGGCACCTATGT	1498
Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT	3247
Sbjct	1499	TTATAACCATCTCACTCCTCTTCGGGACTGGGCGCACAACGGCTTGCGAGATCTGGCCGT	1558
Query	3248	GGCTGTGGAACCAGTCGTCTCTCCCGAATGGAGACCAAGCTCATCACGTGGGGGGCAGA	3307
Sbjct	1559	ĠĠĊŦĠŦaĠaĠĊĊĠĠŦĊĠŦĊŦĊĊĊĊĸĸĸŦĠĠĸĠĸĊĊĸĸĠĊŦĊĸŦĊĸĊĠŦĠĠĠĠĠĠĊĸĠĸ	1618
Query	3308	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCCGTCTCTGCCCGTAGGGGCCAGGA	3367
Sbjct	1619	TACCGCCGCGTGCGGTGACATCATCAACGGCTTGCCTGTTTCCGCCCGC	1678
Query	3368	GATACTGCTTGGGCCAGCCGACGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCCCCAT	3427
Sbjct	1679	GATACTGCTCGGGCCAGCCGATGGAATGGTCTCCAAGGGGTGGAGGTTGCTGGCGCCCAT	1738
Query	3428	CACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	3487
Sbjct	1739	CACGGCGTACGCCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGG	1798
Query	3488	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATCGTGTCAACTGCTACCCAAACCTT	3547
Sbjct	1799	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTT	1858
Query	3548 1859	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607 1918
Sbjct Querv	3608	CCTGGCAACGTGCATCAATGGGGTGTGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	3667
Sbjct	1919	CATCGCATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGACCAAGACCTTGT	1978
Query	3668	GGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
Sbjct	1979		2038
Query	3728	CCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCGAGGTGATAGCAG	3787
Sbjct	2039		2098
Query	3788	GGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGGTCCGCT	3847
Sbjct	2099		2158
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Sbjct	2219	GGCTAAGGCGGTGGACTTTATCCCTGTGGAGAACCTAGAGACAACCATGAGGTCCCCGGT	2278
Query	3968	GTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGTGGCCCACCTGCA	4027
Sbjct	2279		2338
Query	4028	TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087

Sbjct	2339	TGCTCCCACAGGCAGCGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTA	2398
Query	4088	CAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGGTGCTTACATGTC	4147
Sbjct	2399	TAAGGTGCTAGTACTCAACCCCTCTGTTGCTGCAACACTGGGCTTTGGTGCTTACATGTC	2458
Query	4148	CAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	4207
Sbjct	2459	CAAGGCTCATGGGATCGATCCTAACATCAGGACCGGGGTGAGAACAATTACCACTGGCAG	2518
Query	4208	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCAGGAGGTGC	4267
Sbjct	2519	CCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTGCTCGGGGGGGCGC	2578
Query	4268	TTATGACATAATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	4327
Sbjct	2579	TTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATCCATC	2638
Query	4328	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGAGACTGGTTGTGCTCGCCACTGC	4387
Sbjct	2639	CGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGGGG	2698
Query	4388	TACCCCTCCGGGCTCCGTCACTGTCCCATCCTAACATCGAGGAGGTTGCTCTGTCCAC	4447
Sbjct	2699	cacccctccgggctccgtcactgtgccccatcccaacatcgaggaggttgctctgtccac	2758
Query	4448	CACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGATCAAGGGGGGAAG	4507
Sbjct	2759	CACCGGAGAGATCCCTTTTTACGGCAAGGCTATCCCCCTCGAAGTAATCAAGGGGGGGAG	2818
Query	4508	ACATCTCATCTTCTGCCACTCAAAGAAGAGTGCGACGAGCTCGCCGCGAAGCTGGTCGC	4567
Sbjct	2819	acateteatettetgteatteaaagaagaagtgegaegaactegeegeaaagetggtege	2878
Query	4568	ATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGTC	4627
Sbjct	2879	attgggcatcaatgccgtggcctactaccgcggtcttgacgtgtccgtcatcccgaccag	2938
Query	4628	CGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTACCGGCGACTTCGA	4687
Sbjct	2939	CGGCGATGTTGTCGTCGTGGCAACCGATGCCCTCATGACCGGCTATACCGGCGACTTCGA	2998
Query	4688	CTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAGCCTTGACCCTAC	4747
Sbjct	2999	CTCGGTGATAGACTGCAATACGTGTGTCACCCAGACAGTCGATTTCAGCCTTGACCCTAC	3058
Query	4748	CTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGACTCAACGCCGGGG	4807
Sbjct	3059	CTTCACCATTGAGACAATCACGCTCCCCCAGGATGCTGTCTCCCGCACTCAACGTCGGGG	3118
Query	4808	CAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGGGGAGCGCCCCTC	4867
Sbjct	3119	CAGGACTGGCAGGGGAAGCCAGGCATCTACAGATTTGTGGCACCGGGGGAGCGCCCCTC	3178
Query	4868	CGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTGTGCTTGGTATGA	4927
Sbjct	3179	CGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACGCAGGCTGTGCTTGGTATGA	3238
Query	4928	GCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC	4987
Sbjct	3239	GCTCACGCCCGCGAGACTACAGTTAGGCTACGAGCGTACATGAACACCCCGGGGCTTCC	3298
Query	4988	CGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCTCACTCA	5047
Sbjct	3299	ĊĠŦĠŦĠĊĊĂĠĠĂĊĊĂŦĊŦŦĠĂĂŦŦŦŦĠĠĠĂĠĠĠĊĠŦĊŦŦŦĀĊĀĠĠĊĊŦĊĂĊŦĊĂŦĀŦĀĠĀ	3358
Query	5048	TGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTACCTGGTAGCGTA	5107
Sbjct	3359	ŤĠĊĊĊĂĊŤŤŦĊŤĂŤĊĊĊĂĠĂĊĂĂĂĠĊĀĠĀĠŤĠĠĠĠĀĠĂĀĊĊŤŤĊĊŤŦĂĊĊŤĠĠŦĀĠĊĠŤĀ	3418
Query	5108	CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAA	5167
Sbjct	3419	CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAA	3478
Query	5168	GTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGG	5227

Sbjct	3479	GTGTTTGATTCGCCTCAAGCCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGG	3538
Query	5228	CGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCAT	5287
Sbjct	3539	CGCTGTTCAGAATGAAATCACCCTGACGCACCCAGTCACCAAATACATCATGACATGCAT	3598
Query	5288	GTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGC	5347
Sbjct	3599	GTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGC	3658
Query	5348	TCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTC	5407
Sbjct	3659	TTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTC	3718
Query	5408	CGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGG	5466
Sbjct	3719	ĊĠĠĠAAĠĊĊĠĠĊAAŤĊAŤAĊĊŤĠAĊAĠĠĠAAĠŤĊĊŤĊĊAĊĠAĠ~AĠŤŤĊĠAŤĠAĠAŤĠĠ	3777
Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	3778	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCA	3837
Query	5527	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	3838	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCTG	3897
Query	5587	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	3898	CTGTCCAGACCAACTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAACTTCA	3957
Query	5647	TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	5706
Sbjct	3958	TCAGTGGGATACAATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4017
Query	5707	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	5766
Sbjct	4018	CATTGATGGCTTTTACAGCTGCTGTCACCAGCCCACTAACCACTAGCCAAACCCTCCTCT	4077
Query	5767	TCAACATATTqqqqqqqTGGGTGCCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4078	TCAACATATTGGGGGGGTGGGTGCCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	4137
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCCGCCGCCATCGGCACGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4138	TTGTGGGCGCTGGCTTAGCTGGCCGCCGCCATCGGCAGTGTTGGACTGGGGAAGGTCCTCA	4197
Query	5887	TGGACATTCTTGCAGGGTATGGCGGGGCGTGGCGGGAGCTCTTGTAGCATTCAAGATCA	5946
Sbjct	4198	TAGACATCCTTGCAGGGTATGGCGCGGGGCGTGGCGGGAGCTCTTGTGGCATTCAAGATCA	4257
Query	5947 4258	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	6006 4317
Sbjct	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	6066
Query Sbjct	4318	CIGGAGCCCIIGIAGICGGIGICIGCGCAGCAAIACIGCGCCGGCACGIIGGCCCGG	4377
Query	6067	GCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	4378	GCGAGGGGCAGTGCAGTGAACCGCTGATAGCCTTCGCCTCCCGGGGGAACCATG GCGAGGGGGCAGTGCAGT	4437
Query	6127	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6186
Sbjct	4438		4497
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Sbjct	4498		4557
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Sbjct	4558		4617
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTG	6366
~ 1	,		

C1	4610		4677
Sbjct	4618	GCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCCTTTG	4677 6425
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGC	
Sbjct	4678		4736
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Sbjct	4737	TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT	4796
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Sbjct	4857	CCCTGTACCCCCTTCCTGCGCCGAACTACACGTTCGCGCTATGGAGGGTGTCTGCAGAG	4916
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Query	6665	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6724
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Query	6785	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	6844
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Query	6845	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904
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Query	7024	AGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGA	7083
Sbjct	5335	AGGCCAACCTCCTATGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAAA	5394
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Query	7204	GGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGACTACGAAC	7263
Sbjct	5515	ĠĠĠĊĠĊĠĠĊĊĠĠĂĊŤĂŤĂĂĊĊĊĊĊĠĊŤĂĠŤĠĠĂĠĂĊĠŤĠĠĂĂĂĂĠĊĊĊĠĂĊŤĂĊĠĂĀĊ	5574
Query	7264	CACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTC	7323
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Query	7324	GGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTG	7383
Sbjct	5635	GGAAGAAGCGGACGGTGGTCCTCACTGAATCAACCCTATCTACTGCCTTGGCCGAGCTCG	5694
Query	7384	CCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACAT	7443
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Query	7504	TGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGG	7563
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Query	7564	TCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAG	7623
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Query	7984	AAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTC	8043
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Sbjct	6834	CTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGCGCG	6893
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Sbjct	661		720
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Sbjct	721		780
Query	2470	CGTCCTGGGCCATTAAGTGGGAGTACGTCGTTCTCCTGTTCCTTCTGCTTGCAGACGCGC	2529
Sbjct	781		840
Query	2530	GCGTCTGCTCCTGCTTGTGGATGATGTTACTCATATCCCAAGCGGAGGCGGCTTTGGAGA	2589
Sbjct	841		900
Query	2590	ACCTCGTAATACTCAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTGTCCTTCCT	2649
Sbjct	901	ACCTCGTAATACTTAATGCAGCATCCCTGGCCGGGACGCACGGTCTTGTATCCTTCCT	960
Query	2650	TGTTCTTCTGCTTTGCGTGGTATCTGAAGGGTAGGTGGGTG	2709
Sbjct	961	TĠTTĊŢŢĊŢĠĊŢŢŢĠĊĸŢĠĊŢĸŢŢŢĠĸĸĠĠĠŢĸĸĠŢĠĠĠŢĠĊĊĠĠĸĠĊĠĠŢĊŢĸĊĸĊĊŢ	1020
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Sbjct	1021	TCTACGGGATGTGGCCTCTCCTGCTCCTGTTGGCGTTGCCCCAGCGGGCGTACGCGC	1080
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Sbjct	1081	TGGACACGGAGGTGGCCGCGTCGTGGGCGGTGTTGTTCTCGTCGGGGTTGATGGCGCTGA	1140
Query	2830	CTCTGTCGCCATATTACAAGCGCTATATCAGCTGGTGCATGTGGTGGCTTCAGTATTTTC	2889
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Sbjct	1201 2950	TGACCAGAGTGGAAGCGCAACTGCACGTGTGGATTCCCCCCCTCAACGTCCGAGGGGGGC	1260 3008
Query Sbjct	1261	GCGATGCCGTCATCTTACTCATGTGTG-TAGTACACCCGACCCTGGTATTTGACATCACC	1319
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Sbjct	1320		1379
Query	3069	CCCTACTTCGTGCGCGTTCAAGGCCTTCTCCGGATCTGCGCGCTAGCGCGGAAGAT-AGC	3127
Sbjct	1380		1439
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Sbjct	1440		1498
Query	3188	GTATAACCATCTCACCCCTCTTCGAGACTGGGCGCACAACGGCCTGCGAGATCTGGCCGT	3247
Sbjct	1499		1558
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Query	3428	CACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCAGCCTGACTGG	3487

Sbjct	1739	CACGGCGTACGCCCAGCAGACAAGGGGCCTCCTAGGGTGCATAATCACCAGCCTAACTGG	1798
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Sbjct	1799	CCGGGACAAAAACCAAGTGGAGGGTGAGGTCCAGATTGTGTCAACTGCTGCCCAAACCTT	1858
Query	3548	CCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCCGGAACGAGGAC	3607
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Query	3668	GGGCTGGCCCGCTCCAAGGTTCCCGCTCATTGACACCCTGTACCTGCGGCTCCTCGGA	3727
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Query	3788	GGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTCGGGGGGGTCCGCT	3847
Sbjct	2099	ĠĠĠĊĂĠĊĊŦĠĊŦĠŦĊĠĊĊĊĠĠĊĊĊĂŦŦŦĊĊŦĂĊŦŦĠĂĂĂĠĠĊŦĊĊŦĊĠĠĠĠĠŦĊĊĠĊŦ	2158
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Query	3908	GGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCATGAGATCCCCGGT	3967
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Query	4028	TGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGCAGCCCAGGGCTA	4087
Sbjct	2339	TGCTCCCACAGGCAGCGGCAAAAGCACCAAGGTCCCGGCTGCATATGCAGCTCAGGGCTA	2398
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Query	5108	CCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGACCAGATGTGGAA	5167
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Sbjct	3659	TTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTC	3718
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Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
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Sbjct	3898	CTGTCCAGACCAACTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAACTTCA	3957
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Sbjct	3958	TCAGTGGGATACAATACTTGGCGGGCTTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4017
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Query	5767	TCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4078		4137
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
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Sbjct	4318	ccggagccctcgtagtcggcgtggtctgtgcagcaatactgcgccggcacgttggcccgg	4377
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Sbjct Query	4618 6367	GCGACTTTAAGACCTGGCTAAAAGCTAAGCTCATGCCACAGCTGCCTGGGATCCCCTTTG  TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGC	6425
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Sbjct	4737		4796
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Sbjct	4857		4916
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Sbjct	4917		4975
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>gb|AR118696.1|AR118696 Sequence 74 from patent US 6150087
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Query	1870	CTCCCAGCCCGTGGTGGTGGGAACGACCGACAGGTCGGGCGCCCTACCTA	1929
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Sbjct	901		960
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Sbjct	961		1020
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Sbjct	1021		1080
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Sbjct	1201		1260
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Sbjct	1979		2038
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Query	5168	GTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCTATACAGACTGGG	5227
Sbjct	3479		3538
Query	5228	CGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACATCATGACATGCAT	5287
Sbjct	3539		3598
Query	5288	GTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGGCGTCCTGGCTGC	5347
Sbjct	3599		3658
Query	5348	TCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGATCGTCTTGTC	5407
Sbjct	3659	TTTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAGGGTCGTCTTGTC	3718
Query	5408	CGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACC-AGGAGTTCGATGAGATGG	5466
Sbjct	3719	cgggaagccggcaatcatacctgacagggaagtcctctaccgag-agttcgatgagatgg	3777
Query	5467	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCTGAGCAGTTCA	5526
Sbjct	3778	AAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGCCGAGCAGTTCA	3837
Query	5527	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGTTATCACCCCTG	5586
Sbjct	3838	AGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGTCAGGCAGAGGTTATCGCCCCTG	3897
Query	5587	CTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACATGTGGAATTTCA	5646
Sbjct	3898	CTGTCCAGACCAACTGGCAAAAACTCGAGACCTTCTGGGCGAAGCATATGTGGAACTTCA	3957 5706
Query Sbjct	5647 3958	TCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCCCGCCATTGCTT	4017
Query	5707	CATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCAAACCCTCCTCT	5766
Sbjct	4018		4077
Query	5767	TCAACATATTqqqqqqqGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGCCGCTACTGCCT	5826
Sbjct	4078		4137
Query	5827	TTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGGGAAGGTCCTCG	5886
Sbjct	4138		4197
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Sbjct	4198	TAGACATCCTTGCAGGGTATGGCGGGGGGGGGGGGGGGG	4257
Query	5947	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGCCATCCTCTCGC	6006
Sbjct	4258	TGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTACTGCCCGCCATCCTCTCGC	4317
Query	6007	CTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCACGTTGGCCCGG	6066
Sbjct	4318	CCGGAGCCCTCGTAGTCGGCGTGGTCTGTGCAGCAATACTGCGCCGGCACGTTGGCCCGG	4377
Query	6067	GCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCGGGGGAACCATG	6126
Sbjct	4378	GCGAGGGGCAGTGCAGTGGATGAACCGGCTGATAGCCTTCGCCTCCCGGGGGAACCATG	4437
Query	6127	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6186
Sbjct	4438	TTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCTGCCCGCGTCACTGCATACTCA	4497
Query	6187 4498	GCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAGCTCGGAGTGTA	6246 4557
Sbjct	4498 6247	GCAGCCTCACTGTAACCCCAGCTCCTGAGGGCGACTGCACCAGTGGATAAGCTCGGAGTGTA  CCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATGCGAGGTGCTGA	455 / 6306
Query	024/	AUTOUTORISOLICE TO THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF THE COLOR OF	0000

Sbjct	4558		4617
Query	6307	GCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGGGATTCCCTTTG	6366
Sbjct	4618		4677
Query	6367	TGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAG-GAGACGGCATTATGCACACTCGC	6425
Sbjct	4678		4736
Query	6426	TGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAGGATCGTCGGT	6485
Sbjct	4737		4796
Query	6486	CCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTACACCACGGGC	6545
Sbjct	4797	CCTAGGACCTGCAGGAACATGTGGAGTGGGACCTTCCCCATTAATGCCTACACCACGGGC	4856
Query	6546	CCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGTGTCTGCAGAG	6605
Sbjct	4857	ccctgtacccccttcctgcgccgaactacacgttcgcgctatggagggtgtctgcagag	4916
Query	6606	GAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGT-ATCGGGTATGACTACTGA	6664
Sbjct	4917	ĠAATATĠŦĠĠĀĠĀŦĀĀĠĠĊĀĠĠŦĠĠĠĠĠĀĊŦŦĊĊĀĊŦĀĊĠŦĠĀ—ĊĠĠĠŦĀŦĠĀĊŦĀĊŦĠĀ	4975
Query	6665	CAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	6724
Sbjct	4976	CAATCTCAAATGCCCGTGCCAGGTCCCATCGCCCGAATTTTTCACAGAATTGGACGGGGT	5035
Query	6725	GCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAG	6784
Sbjct	5036	GCGCCTACATAGGTTTGCGCCCCCTGCAAGCCCTTGCTGCGGGAGGAGGTATCATTCAG	5095
Query	6785	AGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	6844
Sbjct	5096	AGTAGGACTCCACGAATACCCGGTAGGGTCGCAATTACCTTGCGAGCCCGAACCGGACGT	5155
Query	6845	AGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGAG	6904
Sbjct	5156	GGCCGTGTTGACGTCCATGCTCACTGATCCCTCCCATATAACAGCAGAGGCGGCCGGGCG	5215
Query	6905	AAGGTTGGCGAGAGGG-TCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCAGCTGTCCG	6963
Sbjct	5216	AAGGTTGGCGAG-GGGATCACCCCCCTCTGTGGCCAGCTCCTCGGCTAGCCAGCTATCCG	5274 7023
Query Sbjct	6964 5275	CTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGAGCTCATAG	5334
Query	7024	CTCCATCTCTCAAGGCAACTTGCACCGCTAACCATGACTCCCCTGATGCTGAGCTCATAG  AGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGAGTCAGAGA	7083
Sbjct	5335	AGGCCAACCTCCTATGGAGGCAGGAGTTGGGCGGCAACATCACCAGGGTTGAGTCAGAAA	5394
Query	7084	ACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGAGCGGGAGG	7143
Sbjct	5395		5454
Query	7144	TCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCTGCCCGTCT	7203
Sbjct	5455		5514
Query	7204	GGGCGCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAAGCCTGACTACGAAC	7263
Sbjct	5515		5574
Query	7264	CACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCCTCCGCCTC	7323
Sbjct	5575		5634
Query	7324	GGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGCCGAGCTTG	7383
Sbjct	5635		5694
Query	7384	CCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATACGACAACAT	7443

Sbjct	5695		5754
Query	7444	CCTCTGAGCCCGCCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTATTCTTCCA	7503
Sbjct	5755		5814
Query	7504	TGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATGGTCGACGG	7563
Sbjct	5815		5874
Query	7564	TCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTCCTGGACAG	7623
Sbjct	5875	TCAGTAGTGAGGCCAACGCGGAGGATGTCGTGTGCTCAATGTCTTACTCTTGGACAG	5934
Query	7624	GCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGCACTGAGCA	7683
Sbjct	5935	GCGCACTCGTCACCCCGTGCGCCGCGGAAGAACAGAAACTGCCCATCAATGCACTAAGCA	5994
Query	7684	ACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGCTTGCCAAA	7743
Sbjct	5995	actcgttgctacgtcaccacaatttggtgtattccaccacctcacgcagtgcttgccaaa	6054
Query	7744	GGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTGC	7803
Sbjct	6055	GGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCAGGACGTAC	6114
Query	7804	TCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG	7863
Sbjct	6115	TCAAGGAGGTTAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGTAGAGGAAG	6174
Query	7864	CTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGCAAAAGACG	7923
Sbjct	6175	CTTGCAGCCTGACGCCCCACACTCAGCCAAATCCAAGTTTGGTTATGGGGCAAAAGACG	6234
Query	7924	TCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGACCTTCTGG	7983
Sbjct	6235 7984	TCCGTTGCCATGCCAGAAAGGCCGTAACCCACATCAACTCCGTGTGGAAAGACCTTCTGG	6294 8043
Query Sbjct	6295	AAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTTCTGCGTTC	6354
Query	8044	AGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCTGGGCGTGC	8103
Sbjct	6355		6414
Query	8104	GCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAA-GCTCCCCCTGGCCGTGATG	8162
Sbjct	6415		6473
Query	8163	GGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGTGCAAGCG	8222
Sbjct	6474		6533
Query	8223	TGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGACTCCACA	8282
Sbjct	6534		6593
Query	8283	GTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCTGGACCCC	8342
Sbjct	6594	GTCACTGAGAGCGACATCCGTACGGAGGAGGCAATCTACCAATGTTGTGACCTCGACCCC	6653
Query	8343	CAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCCTCTTACC	8402
Sbjct	6654	CAAGCCCGCGTGGCCATCAAGTCCCTCACCGAGAGGCTTTATGTTGGGGGGCCCTCTTACC	6713
Query	8403	AATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACTGACAACT	8462
Sbjct	6714	AATTCAAGGGGGGAGAACTGCGGGCTATCGCAGGTGCCGCGAGCGGCGTACTGACAACT	6773
Query	8463	AGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGCCGCAGGG	8522
Sbjct	6774	AĠĊŢĠŢĠŢŔĂĊĂĊĊĊŢĊĂĊŢŢĠĊŢĂĊĂŢĊĂĀĠĠĊĊĠĠĠĊĂĠĊĊŢĠŢĊĠĀĠĊĊĠĊĀĠĠĠ	6833
Query	8523	CTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGAAAGTGCG	8582

Sbjct	6834		6893
Query	8583	GGGGTCCAGGAGGACGCGGGGGCCTGAGAGCCTTCACGGAGGCTATGACCAGGTACTCC	8642
Sbjct	6894		6953
Query	8643	GcccccccggggacccccACAACCAGAATACGACTTGGAGCTTATAACATCATGCTCC	8702
Sbjct	6954	GCCCCCCTGGGGACCCCCACAACCAGAATACGACTTGGAGCTCATAACATCATGCTCC	7013
Query	8703	TCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTTACCCGTGAC	8762
Sbjct	7014	TCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTCACCCGTGAC	7073
Query	8763	CCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGTCAATTCC	8822
Sbjct	7074	CCTACAACCCCCCTCGCGAGAGCTGCGTGGGAGACAGCAAGACACCCCAGTCAATTCC	7133
Query	8823	TGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACTGATGACC	8882
Sbjct	7134	TGGCTAGGCAACATAATCATGTTTGCCCCCCACACTGTGGGCGAGGATGATACTGATGACC	7193
Query	8883	CATTICTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTGTGAGATC	8942
Sbjct	7194	CATTTCTTTAGCGTCCTTATAGCCAGGGACCAGCTTGAACAGGCCCTCGATTGCGAGATC	7253
Query	8943	TACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAGACTC 89	99
Sbjct	7254	TACGGGGCCTGCTACTCCATAGAACCACTTGATCTACCTCCAATCATTCAAAGACTC 73	10

>dbj|DJ065327.1| HCV Replicon Shuttle Vectors Length=11509

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Score = 1.108e+04 bits (6002), Expect = 0.0 Identities = 6122/6181 (99%), Gaps = 4/6181 (0%)
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     3418
         TGGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCA
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Query
         3407
Sbjct
     3348
     3478
         GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCAACTGCT
                                                       3536
Query
         3408
                                                       3466
Sbjct
     3537
         ACCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCC
                                                       3596
Query
         ACACAATCTTTCCTGGCGACCTGCGTCAATGGCGTGTGTTGGACTGTCTATCATGGTGCC
     3467
                                                       3526
Sbjct
     3597
         GGAACGAGGACCATCG-CATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGA
                                                       3655
Query
         3527
                                                       3585
Sbjct
     3656
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Query
         3586
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                                                       3645
Sbjct
     3716
         CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG
                                                       3775
Query
         3646
         CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG
                                                       3705
Sbjct
         AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTC
Query
     3776
                                                       3835
         Sbjct
     3706
                                                       3765
     3836
         GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTG
                                                       3895
Query
         GGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTG
     3766
                                                       3825
Sbjct
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Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3886	ĠĀĠĀŦĊĊĊĠĠŦĠŦŦĊĀĊĠĠĀĊĀĀĊŦĊĊŦĊŦĊĊĀĊĊĀĠĊĀĠŦĠĊĊĊĠĀĠĀĠĊŦŦĊĊĀĠĠŦ	3945
Query	4016	GGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3946	gcccacctgcatgctcccaccgcagcgctaagagcaccaaggtcccgctgcgtacgc	4005
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4006	agcccagggctacaaggtgttggtgctcaacccctctgttgctgcaacgctgggctttgg	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4066	TĠĊŢŢŖĊŖŢĠŢĊĊŖŖĠĠĊĊŖŢĠĠĠĠŢŖŖŢĠŖŢĠŖŖŢŖŖŖŖŖŖŖŖ	4125
Query	4196	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGTG	4255
Sbjct	4126	TÁCCACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4185
Query	4256	CTCAGGAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	ĊŢĊŖĠŖĠĠŢĠĊŢŢŖŢĠŖĊŖŢŖŢĠŖĊĠŖĠŢĠĊĊŖĊŢĊĊŖĊĠĠŖŢĠĊĊŖĊŖŢĊ	4245
Query	4316	CATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGCGAGACTGGTTGT	4375
Sbjct	4246	ĊĂŢĊŢŢĠĠĊĀŢĊĠĠĊĀĊŢĠŢĊĊŢŢĠĀĊĊĀĀĠĊĀĠĀĠĀĊŢĠĊĠĠĠĠĠĊĠĀĠĀĊŢĠĠŢŢĠŢ	4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4306	ĠĊŦĊĠĊĊĂĊŦĠĊŦĂĊĊĊĊŦĊĊĠĠĠĊŦĊĊĠŦĊĂĊŦĠŦĠŦĊĊĊĂŦĊĊŦĂĂĊĂŦĊĠĀĠĠĀĠĠŦ	4365
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TĠĊŢĊŢĠŢĊĊĂĊĊĠĠĀĠĀĠĀŢĊĊĊŢŢŢŢĀĊĠĠĊĀĀĠĠĊŢĀŢĊĊĊĊŢĊĠĀĠĠŢĠĀŢ	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4426	CÁAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4485
Query	4556	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4486	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4545
Query	4616	CATCCCGACCAGCGGCGATGTTGTCGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCCGACCAGCGGCGATGTTGTCGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTAC	4605
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAG	4735
Sbjct	4606	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAG	4665
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4666	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGAC	4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4785
Query	4856	GGAGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786	ġĠĂĠĊĠĊĊĊĊĊĊĠĠĊĂŢĠŢŢĊĠĂĊŢĊĠŢĊĊŢĊŢĠŢĠĂĠŢĠĊŢĂŢĠĀĊĠĊĠĠĠĊŢĠ	4845
Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4846	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035
Sbjct	4906	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	4965

Query	5036	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTA	5095
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Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGA	5155
Sbjct	5026	ĊĊŢĠĠŢĀĠĊĠŢĀĊĊĀĀĠĊĊĀĊĊĠŢĠŢĠĊĠĊŢĀĠĠĠĊŢĊĀĀĠĊĊĊĊŢĊĊĊĊĀŢĊĠŢĠĠĠĀ	5085
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5086	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5145
Query	5216	ATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5146	ÁTACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5205
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5206	ĊĂŢĠĂĊĂŢĠĊĂŢĠŢĊĠĠĊĊĠĂĊĊŢĠĠĀĠĠŢĊĠŢĊĀĊĠĀĠĊĂĊĊŢĠĠĠŢĠĊŢĊĠŢŢĠĠĊĠĠ	5265
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5266	ĊĠŦĊĊŦĠĠĊŦĠĊŤĊŦĠĠĊĊĠĊĠŦĂŦŤĠĊĊŦĠŤĊĂĂĊĂĠĠĊŦĠĊĠŤĠĠŤĊĂŤĂĠŦĠĠĠĊĀĠ	5325
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5326	ĠĂŢĊĠŢĊŢĠŢĊĊĠĠĠAĀĠĊĊĠĠĊĀĀŢŢĀŢĀĊĊŢĠĀĊĀĠĠĀĠŢŢĊŢĊŢĀĊĊĀĠĠĀĠŢŢ	5385
Query	5456	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5386	cgatgagatggaagagtgctctcagcacttaccgtacatcgagcaagggatgatgctcgc	5445
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5446	tgagcagttcaagcagaaggccctcggcctcctgcagaccgcgtcccgccatgcagaggt	5505
Query	5576	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5506	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5565
Query	5636	GTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5566	gtggaatttcatcagtgggatacaatacttggcgggcctgtcaacgctgcctggtaaccc	5625
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCA	5755
Sbjct	5626	ĊĠĊĊĂŢŢĠĊŢŢĊĂŢŢĠĂŢĠĠĊŢŢŢŢĠĊĠŢĊĂĊĊĂĠĊĊĂĊŢĂĂĊĊĂĊŢĠĠĊĊĂ	5685
Query	5756	AACCCTCCTCTCAACATATTggggggGTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGC	5815
Sbjct	5686	aaccctcctcttcaacatattgggggggtgggtggctgcccagctcgccgcccccggtgc	5745
Query	5816	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5746	cĠĊŦĂĊŦĠĊĊŦŦŦĠŦĠĠĠŦĠĊŦĠĠĊĊŦĂĠĊŦĠĠĊĠĊĊĠĊĊĂŦĊĠĠĊĂĠĊĠŦŦĠĠĀĊŦĠĠĠ	5805
Query	5876	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5806	ĠAAĠĠŦĊĊŦĊĠŦĠĠAĊAŦŦĊŦŦĠĊĀĠĠĠŦĀŦĠĠĊĠĊĠĠĠĊĠŦĠĠĊĠĠĠĀĠĊŦĊŦŦĠŦĀĠĊ	5865
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5866	attcaagatcatgagcggtgaggtcccctccacggaggacctggtcaatctgctgcccgc	5925
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAATACTGCGCCGGCA	6055
Sbjct	5926	catcctctcgcctggagcccttgtagtcggtgtggtctgcgcagcaatactgcgccggca	5985
Query	6056	CGTTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6115
Sbjct	5986	CGTTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6045
Query	6116	GGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6175
Sbjct	6046	GGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6105

Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6106	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6165
Query	6236	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6166	ĊŤĊĠĠĀĠŤĠŤĀĊĊĀĊŤĊĊĀŤĠĊŤĊĊĠĠŤŤĊĊŤĠĠĊŤĀĀĠĠĠĀĊĀŤĊŤĠĠĠĀĊŤĠĠĀŤĀŤĠ	6225
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGG	6355
Sbjct	6226	ĊĠĂĠĠŦĠĊŦĠĂĠĊĠĂĊŦŦŦĂĂĠĂĊĊŦĠĠĊŦĠĂĂĂĠĊĊĂĠĊŦĊĂŦĠĊĊĂĊĂĂĊŦĠĊĊŦĠĠ	6285
Query	6356	GATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6286	ĠATTĊĊĊTTTĠTĠTĊĊTĠĊĊAĠĊĠĊĠĠĠŦATAĠĠĠĠĠĠĊŤĊŢĠĠĊĠAĠĠĠĠĠĊĀŢĀŢ	6345
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6346	ĠĊĀĊĀĊĪĊĠĊĪĠĊĊĀĊĪĠĪĠĠĀĠĊĪĠĀĠĀTĊĀĊĪĠĠĀĊĀŢĠĪĊĀĀĀĀĀĊĠĠĠĀĊĠĀŢĠĀĠ	6405
Query	6476	GATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6535
Sbjct	6406	ĠATĊĠŦĊĠĠŦĊĊŦĀĠĠĀĊĊŦĠĊĀĠĠĀĀĊĀŦĠŦĠĠĀĠŦĠĠĠĀĊĠŦŦĊĊĊĊĀŦŦĀĀĊĠĊĊŦĀ	6465
Query	6536	CACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6466	caccacgggcccctgtactccccttcctgcgccgaactataagttcgcgctgtggagggt	6525
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6526	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6585
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6586	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCCATCGCCCGAATTCTTCACAGAATT	6645
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6646	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6705
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6706	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6765
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6766	accigiacitadeciticacitectedeciticaciticacitectedeciticacitaticaciadadec	6825
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6826	GGCCGGGAGAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6885
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6886	gctgtccgctccatctctcaaggcaacttgcaccgccaaccatgactcccttgacgccga	6945
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6946	gctcatagaggctaacctcctgtggaggcaggagatgggcggcaacatcaccagggttga	7005
Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7006	grcagagaacaaagrggrgarrcrggacrccrrcgarccgcrrgrggcagaggaggarga	7065
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCT	7195
Sbjct	7066	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCT	7125
Query	7196	GCCCGTCTGGGCCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255
Sbjct	7126	GCCCGTCTGGGCCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7185
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315
Sbjct	7186	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7245

Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGC	7375
Sbjct	7246	tccgcctcggaaaaagcgtacggtgtcctcaccgaatcaaccctatctactgccttgc	7305
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7306	ĊĠĀĠĊŦŦĠĊĊĀĊĀĀĀĀĠŦŦŦŦĠĠĊĀĠĊŦĊĊŦĊĀĀĊŦŦĊĊĠĠĊĀŦŦĀĊĠĠĠĊĠĀĊĀĀŦĀĊ	7365
Query	7436	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGccccGCCGACCTCCGACGTTGAGTCCTA	7495
Sbjct	7366	ĠAĊAAĊAŤĊĊŤĊŤĠAĠĊĊĊĠĊĊĊŤŤĊŤĠĠĊŤĠĊĊĊĊĊĠAĊŤĊĊĠAĊĠŤŤĠAĠŤĊĊŤA	7425
Query	7496	TTCTTCCATGCCCCCCTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATG	7555
Sbjct	7426	TTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7485
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTC	7615
Sbjct	7486	gtcgacggtcagtagtggggccgacacggaagatgtcgtgtgctgctcaatgtcttattc	7545
Query	7616	CTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGC	7675
Sbjct	7546	ĊŢĠĠĀĊĀĠĠĊĠĊĀĊŢĊĠŢĊĀĊĊĊĠŢĠĊĠĊŢĠĊĠĠĀĀĠĀĀĊĀĀĀĀĊŢĠĊĊĀŢĊĀĀĊĠĊ	7605
Query	7676	ACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGC	7735
Sbjct	7606	actgagcaactcgttgctacgccatcacaatctggtgtattccaccacttcacgcagtgc	7665
Query	7736	TTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7795
Sbjct	7666	ttgccaaaggcagaagaaagtcacatttgacagactgcaagttctggacagccattacca	7725
Query	7796	GGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGT	7855
Sbjct	7726	ggacgtgctcaaggaggtcaaagcagcggcgtcaaaagtgaaggctaacttgctatccgt	7785
Query	7856	AGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGC	7915
Sbjct	7786	agaggaagcttgcagcctgacgccccacattcagccaaatccaagtttggctatgggc	7845
Query	7916	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGA	7975
Sbjct	7846	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGA	7905
Query	7976	CCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTT	8035
Sbjct	7906	CCTTCTGGAAGACAGTGTAACACCAATTGACACTACCATCATGGCCAAGAACGAGGTTTT	7965
Query	8036	CTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCT	8095
Sbjct	7966	ĊŢĠĊĠŢŢĊĸĠĊĊŢĠĸĠĸĸĠĠĠĠĠĠŢĊĠŢĸĸĠĊĊĸĠĊŢĊĠŢĊŢĊĸŢĊĠŢĠŢŢĊĊĊĊĠĸĊĊŢ	8025
Query	8096	GGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8155
Sbjct	8026	ĠĠĠĊĠŤĠĊĠĊĠŤĠŤĠĊĠĂĠĂĂĠĂŤĠĠĊĊĊŤĠŤĀĊĠĂĊĠŤĠĠŤŤĂĠĊĀĀĠĊŤĊĊĊĊĊŤĠĠĊ	8085
Query	8156	CGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGT	8215
Sbjct	8086	ĊĠŦĠĂŦĠĠĠĂĂĠĊŦĊĊŦĂĊĠĠĂŦŦĊĊĀĀŦĂĊŦĊĀĊĊĂĠĠĀĊĀĠĊĠĠĠŦŦĠĀĀŦŦĊĊŦĊĠŦ	8145
Query	8216	GCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGA	8275
Sbjct	8146	ĠĊAAĠĊĠŤĠĠAAĠŤĊĊAAĠAAĠAĊĊĊĠAŤĠĠĠŤŤĊŤĊĠŤAŤĠAŤAĊĊĊĠĊŤĠŤŤŤĠA	8205
Query	8276	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8335
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Sbjct	8266	ggaccccaagcccgcgtggccatcaagtccctcactgagaggctttatgttgggggccc	8325
Query	8396	TCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACT	8455
Sbjct	8326	TCTTACCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACT	8385

Query	8456	GACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGC	8515
Sbjct	8386	GACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGC	8445
Query	8516	CGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8575
Sbjct	8446	ĊĠĊĀĠĠĠĊŤĊĊĀĠĠĀĊŤĠĊĀĊĊĀŤĠĊŤĊĠŤĠŤĠĠĊĠĀĊĠĀĊŤŤĀĠŤĊĠŤŤĀŤĊŤĠŤĠĀ	8505
Query	8576	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8635
Sbjct	8506	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8565
Query	8636	GTACTCCGcccccccggggaccccccACAACCAGAATACGACTTGGAGCTTATAACATC	8695
Sbjct	8566	GTACTCCGCCCCCCGGGGACCCCCCACAACCAGAATACGACTTGGAGCTTATAACATC	8625
Query	8696	ATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTTAC	8755
Sbjct	8626	ATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTTAC	8685
Query	8756	CCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGT	8815
Sbjct	8686	CCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGT	8745
Query	8816	CAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACT	8875
Sbjct	8746	CAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACT	8805
Query	8876	GATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTG	8935
Sbjct	8806	GATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTG	8865
Query	8936	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAG	8995
Sbjct	8866	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAG	8925
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Sbjct	8926	ACTCCATGGCCTCAGCATATCCCCTCCCCCCCCCCTTCCCACCCTCCCACCCCCC	8985
Query	9056 8986	GGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCG	9115 9045
Sbjct Query	9116	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGCTGCCATATGTGGCAAGTACCT	9175
Sbjct	9046	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGCTGCCATATGTGGCAAGTACCT	9105
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Sbjct	9106		9165
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Sbjct	9166		9225
Query	9296	TCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCAT	9355
Sbjct	9226		9285
Query	9356	CTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC	9415
Sbjct	9286		9345
Query	9416	TGtttttttttttttttttttttttttttttttttttt	9475
Sbjct	9346		9405
Query	9476	tttootttcttttcccttotttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9535
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Sbjct
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>emb|CS619793.1| Sequence 2 from Patent EP1801116 Length=11509

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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         TGGCGCCTATTACGGCCTACTCCCAACAGACGCGAGGCCTACTTGGCTGCATCATCACTA
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Sbjct
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Query
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     3706
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Sbjct
     3836
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Query
```

Sbjct	3766	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTG	3825
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3886	GAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	3945
Query	4016	GGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3946	ggcccacctgcatgctcccaccggcagcggtaagagcaccaaggtcccggctgcgtacgc	4005
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4006	AĞCCCAĞĞĞCTACAAĞĞTĞTİĞĞTĞCİCAACCCTCTĞTİĞCTĞCAACĞCİĞĞĞCTİİĞĞ	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4066	ŤĠĊŤŤĂĊĂŤĠŤĊĊĂĂĠĠĊĊĊĂŤĠĠĠĠŤŤĠĂŤĊĊŤĂĂŤĂŤĊĂĠĠĂĊĊĠĠĠĠŤĠĂĠĂĂĊĂĂŤ	4125
Query	4196	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGTG	4255
Sbjct	4126	ŤÁCCÁCTĠĠĊÁĠĊĊĊÁŤĊÁĊĠŤÁĊŤĊĊÁĊĊŤÁĊĠĠĊÁÁĠŤŤĊĊŤŤĠĊĊĠÁĊĠĠĊĠĠĠŤĠ	4185
Query	4256	CTCAGGAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
Query	4316	CATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGCGAGACTGGTTGT	4375
Sbjct	4246	CATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4306	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4365
Query	4436	TGCTCTGTCCACCACCGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4485
Query	4556	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4486	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4545
Query	4616	CATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCCGACCAGCGGCGATGTTGTCGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTAC	4605
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAG	4735
Sbjct	4606	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAG	4665
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4666	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGAC	4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4785
Query	4856	GGAGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786	GGAGCGCCCTCCGGCATGTTCGACTCGTCCTCTGTGAGTGCTATGACGCGGGCTG	4845
Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4846	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035

Sbjct	4906	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	4965
Query	5036	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTA	5095
Sbjct	4966	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTA	5025
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGA	5155
Sbjct	5026	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGA	5085
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5086	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5145
Query	5216	ATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5146	ATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5205
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5206		5265
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5266	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5325
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5326	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5385
Query	5456	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5386	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5445
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5446	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5505
Query	5576	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5506	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5565
Query	5636	GTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5566	GTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5625
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCA	5755
Sbjct	5626	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCA	5685
Query	5756	AACCCTCCTCTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCCCCGGTGC	5815
Sbjct	5686	AACCCTCCTCTTCAACATATTGGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGC	5745
Query	5816	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCCCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5746	cectacteccttteteeetecteectaecteecececcatceecaceetreee	5805
Query	5876	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5806	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5865
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5866	ATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5925
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5926	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5985
Query	6056	CGTTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6115
Sbjct	5986	CGTTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6045
Query	6116	GGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6175

Sbjct	6046	GGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6105
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6106	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6165
Query	6236	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6166	ctcggagtgtaccactccatgctccggttcctggctaagggacatctggactggatatg	6225
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGG	6355
Sbjct	6226	ĊĠAĠĠŦĠĊŦĠAĠĊĠAĊŦŦŦAAĠAĊĊŦĠĠĊŦĠAAAĠĊĊAĀĠĊŦĊAŦĠĊĊAĊAAĊŦĠĊĊŦĠĠ	6285
Query	6356	GATTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6286	ĠĂŦŦĊĊĊŦŦŦĠŦĠŦĊĊŦĠĊĊĀĠĊĠĊĠĠĠŦĂŦĀĠĠĠĠĠĠŦĊŦĠĠĊĠĀĠĠĀĠĀĊĠĠĊĀŦŦĀŦ	6345
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6346	ĠĊAĊAĊŦĊĠĊŦĠĊĊAĊŦĠŦĠĠAĠĊŦĠĀĠAŦĊĀĊŦĠĠAĊĀŦĠŦĊĀĀĀĀĀĊĠĠĠĀĊĠĀŦĠĀĠ	6405
Query	6476	GATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6535
Sbjct	6406	ĠĂŤĊĠŤĊĠĠŤĊĊŤĂĠĠĂĊĊŤĠĊĂĠĠĂĂĊĂŤĠŤĠĠĀĠŤĠĠĠĂĊĠŤŤĊĊĊĊĂŤŤĂĂĊĠĊĊŤĀ	6465
Query	6536	CACCACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6466	CÁCCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGT	6525
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6526	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6585
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6586	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTCTTCACAGAATT	6645
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6646	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6705
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6706	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6765
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6766	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6825
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6826	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6885
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6886	GCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGA	6945
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6946	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7005
Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7006	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7065
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCT	7195
Sbjct	7066	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCT	7125
Query	7196	GCCCGTCTGGGCCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255
Sbjct	7126	GCCCGTCTGGGCCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7185
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315

Sbjct	7186	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7245
Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGC	7375
Sbjct	7246	ŤĊĊĠĊĊŤĊĠĠĂĂĂĂĂĠĊĠŤĂĊĠĠŤĠĠŤĊĊŤĊĂĊĊĠĂĂŤĊĂĂĊĊĊŤĂŤĊŤĂĊŤĠĊĊŤŤĠĠĊ	7305
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7306	ĊĠĂĠĊŤŤĠĊĊĂĊĊĂĂĂĂĠŤŤŤŤĠĠĊĂĠĊŤĊĊŤĊĂĂĊŤŤĊĊĠĠĊĂŤŤĂĊĠĠĠĊĠĂĊĂĂŤĂĊ	7365
Query	7436	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACTCCGACGTTGAGTCCTA	7495
Sbjct	7366	ĠĂĊĂĂĊĂŤĊĊŤĊŤĠĂĠĊĊĠĊĊĊŤŤĊŤĠĠĊŤĠĊĊĊĊĊĠĂĊŤĊĊĠĂĊĠŤŤĠĂĠŤĊĊŤĂ	7425
Query	7496	TTCTTCCATGeeccetGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATG	7555
Sbjct	7426	ŤŤĊŤŤĊĊĂŤĠĊĊĊĊĊĊŤĠĠĂĠĠĠĠĠĠĠĠĊĊŤĠĠĠĠĂŤĊĊĠĠĂŤĊŤĊĂĠĊĠÁĊĠĠĠŤĊĂŤĠ	7485
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTGCTCAATGTCTTATTC	7615
Sbjct	7486	ĠŤĊĠĂĊĠĠŤĊĂĠŤĀĠŤĠĠĠĠĊĊĠĂĊĂĊĠĠĂĂĠĂŤĠŤĊĠŤĠŤĠĊŤĠĊŤĊĂĂŤĠŤĊŤŤĂŤŤĊ	7545
Query	7616	CTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGC	7675
Sbjct	7546	ĊŢĠĠŔĊŔĠĠĊĠĊŔĊŢĊĠŢĊŔĊĊĊĠŢĠĊĠĊŢĠĊĠĠŔŔĠŔŔĊŔŔŔŔŔŔĊŢĠĊĊŔŢĊŔŔĊĠĊ	7605
Query	7676	ACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGC	7735
Sbjct	7606	ACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGC	7665
Query	7736	TTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7795
Sbjct	7666	TTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7725
Query	7796	GGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGT	7855
Sbjct	7726	GGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGT	7785
Query	7856	AGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGC	7915
Sbjct	7786	AGAGGAAGCTTGCAGCCTGACGCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGC	7845
Query	7916	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGA	7975
Sbjct	7846	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGA	7905
Query	7976	CCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTT	8035
Sbjct	7906	CCTTCTGGAAGACAGTGTAACACCAATTGACACTACCATCATGGCCAAGAACGAGGTTTT	7965
Query	8036	CTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCT	8095
Sbjct	7966	CTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCT	8025
Query	8096	GGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8155
Sbjct	8026	GGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8085
Query	8156	CGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGT	8215
Sbjct	8086	CGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGT	8145
Query	8216	GCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGA	8275
Sbjct	8146	GCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGA	8205
Query	8276	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8335
Sbjct	8206	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8265
Query	8336	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCC	8395
Sbjct	8266	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCC	8325
Query	8396	TCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACT	8455

Sbjct	8326	TCTTACCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACT	8385
Query	8456	GACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGC	8515
Sbjct	8386	GACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGC	8445
Query	8516	CGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8575
Sbjct	8446	ĊĠĊAĠĠĠĊŤĊĊAĠĠAĊŤĠĊAĊĊAŤĠĊŤĊĠŤĠŤĠĠĊĠAĊĠAĊŤŤAĠŤĊĠŤŤAŤĊŤĠŤĠA	8505
Query	8576	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8635
Sbjct	8506	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8565
Query	8636	GTACTCCGccccccggggaccccccACAACCAGAATACGACTTGGAGCTTATAACATC	8695
Sbjct	8566	GTACTCCGCCCCCGGGGACCCCCCACAACCAGAATACGACTTGGAGCTTATAACATC	8625
Query	8696	ATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTTAC	8755
Sbjct	8626	ATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTTAC	8685
Query	8756	CCGTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGT	8815
Sbjct	8686	CCGTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGT	8745
Query	8816	CAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACT	8875
Sbjct	8746	CAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCCACACTGTGGGCGAGGATGATACT GATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTG	8805
Query	8876 8806	GATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTG	8935 8865
Sbjct	8936	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAG	8995
Query Sbjct	8866		8925
Query	8996	ACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	9055
Sbjct	8926		8985
Query	9056	GGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCG	9115
Sbjct	8986		9045
Query	9116	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCT	9175
Sbjct	9046	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCT	9105
Query	9176	CTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCT	9235
Sbjct	9106	cttcaactgggcagtaagaacaaagctcaaactcactccaatagcggccgctggccggct	9165
Query	9236	GGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTC	9295
Sbjct	9166	ĠĠĀĊŦŦĠŦĊĊĠĠŦŦĠĠŦŦĊĀĊĠĠĊŦĠĠĊŦĀĊĀĠĊĠĠĠĠĠĀĠĀĊĀŦŦŦĀŦĊĀĊĀĠĊĠŦĠŦĊ	9225
Query	9296	TCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCAT	9355
Sbjct	9226	TCATGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCAT	9285
Query	9356	CTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC	9415
Sbjct	9286	CTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC	9345
Query	9416	TGtttttttttttttttttttttttttttttttttttt	9475
Sbjct	9346	TGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9405
Query	9476	tttaatttattaacottatttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9535
Sbjct	9406	TTTCCTTTCTTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9465
Query	9536	GTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC	9595

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GTGAAAGGTCCGTGAGCCGCTTGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC
Sbjct
     9466
     9596
          Α
            9596
Query
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            9526
Sbjct
          Α
Score = 597 bits (323), Expect = 6e-167 Identities = 337/343 (98%), Gaps = 4/343 (1%)
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Query
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         GCCAGCCCCTGA-TGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTAC
                                                          58
         GCCAGCCCC-GATTGGGGGCGACACTCCACCAT-AGATCACTCCCTGTGAGGAACTAC
Sbjct
     26
                                                          83
     59
         TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGG
                                                          118
Query
         84
         TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGG
                                                          143
Sbjct
     119
         AccedentCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC
                                                          178
Query
         ACCCCCCTCCCGGGAGACCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC
                                                          203
Sbjct
     144
     179
         \tt AGGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCC
                                                          238
Query
         204
Sbjct
                                                          263
     239
         CCGCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATA
                                                          298
Query
         CCGCGÁGACTGCTAGCCGÁGTAGTGTTGGGTCGCGÁÁAAGGCCTTGTGGTÁCTGCCTGÁTÁ
     264
                                                          323
Sbjct
Query
     299
         GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC
                                             341
         Sbjct
     324
         GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC
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>emb|GM975264.1| Sequence 19 from Patent WO2008148671 Length=11507

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Score = 1.106e+04 bits (5987), Expect = 0.0 Identities = 6117/6181 (98%), Gaps = 4/6181 (0%)
Strand=Plus/Plus
Query
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          TGGCGCCCATCACGGCGTACGCCCAGCAGACGAGAGGCCTCCTAGGGTGTATAATCACCA
                                                           3477
          3346
          TGGCGCCTATTACGGCCTACTCCCAACAGACGCGAGGCCTACTTGGCTGCATCATCACTA
Sbjct
                                                           3405
          GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCAACTGCT
     3478
                                                           3536
Query
          GCCTCACAGGCCGGGACAGGAACCAGGTCGAGGGGGAGGTCCAAG-TGGTCTCCACCGCA
     3406
                                                           3464
Sbjct
     3537
          ACCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCC
                                                           3596
Query
          ACACAATCTTTCCTGGCGACCTGCGTCAATGGCGTGTGTTGGACTGTCTATCATGGTGCC
     3465
                                                           3524
Sbjct
     3597
          GGAACGAGGACCATCG-CATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGA
                                                           3655
Query
          3525
                                                           3583
Sbjct
     3656
          CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG
                                                           3715
Query
          3584
          CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG
                                                           3643
Sbjct
Query
     3716
          CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG
                                                           3775
          Sbjct
     3644
                                                           3703
     3776
          AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTC
                                                           3835
Query
          AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTC
                                                           3763
Sbjct
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Query	3836	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTG	3895
Sbjct	3764	ĠĠĠĠĠĠĊĊĠĊĠĊĠĊĠĊĠĠĠĠĀĊĀĊĠĊĠŢĠĠĠĊĊŦĀŢŢĊĀĠĠĠĊĊĠĊĠĠŢĠŢĠ	3823
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3824	ĊAĊĊĊĠŦĠĠAĠŦĠĠĊŦAAAĠĊĠĠŦĠĠAĊŦŦŦĂŦĊĊĊŦĠŦĠĠAĠAAĊĊŦAĠĠĠAĊAAĊĊAŦ	3883
Query	3956	GAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3884	ĠAĠAŤĊĊĊĠĠŤĠŤŤĊAĊĠĠAĊAAĊŤĊĊŤĊŤĊĊAĊĊAĠĊAĠŤĠĊĊĊĊAĠAĠĊŤŤĊĊĀĠĠŤ	3943
Query	4016	GGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3944	gĠĊĊĊĊĊĊĠĊĊĠĊĊĠĊĊĠĠĊĠĠĊĠĠŢĸĸĠĠĊĠĊĊĸĸĠĠĊĊĊĠĠĊŢĠĊĠŦĸĊĠĊ	4003
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4004	AĠĊĊĊĀĠĠĠĊŦĀĊĀĀĠĠŦĠŦŦĠĠŦĠĊŤĊĀĀĊĊĊŤĊŦĠŦŦĠĊŦĠĊĀĀĊĠĊŦĠĠĠĊŦŦŦĠĠ	4063
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4064	TĠĊTTAĊATĠTĊĊAAĠĠĊĊĊATĠĠĠĠŤŦĠATĊĊŦAATATĊAĠĠAĊĊĠĠĠĠŦĠAĠAAĊAAT	4123
Query	4196	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGTG	4255
Sbjct	4124	TACCACTGGCAGCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGTG	4183
Query	4256	CTCAGGAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4184	ctcaggaggtgcttatgacataattattgtgacgagtgccactccacggatgccacatc	4243
Query	4316	CATCTTGGGCATCGCCATGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4375
Sbjct	4244	CATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4303
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4304	ĠĊŢĊĠĊĊĸĊŢĠĊŢĸĊĊĊŢĊĊĠĠĠĊŢĊĊĠŢĊĸĊŢĠŢĠŢĊĊĊĸŢĊĊŢĸĸĊĸŢĊĠĸĠĠĸĠĠŢ	4363
Query	4436	TGCTCTGTCCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4364	TĠĊŢĊŢĠŢĊĊAĊĊĠĠĠĠĠĠŢĠĀŢĊĊĊĊŢŢŢŢĠĊĠĠĠĠĠŢĠĀŢ	4423
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4424	ĊAAĠĠĠĠĠĠAAĠAĊĀTĊŦĊĀŤĊŦŦĊŦĠĊĊĀĊŦĊĀAAĠAĀĠĀĀĠŦĠĊĠĀĊĠĀĠĊŦĊĠĊĊĠĊ	4483
Query	4556	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4484	ĠĂĂĠĊŦĠĠŦĊĠĊĂŦŦĠĠĠĊĂŦĊĂĂŦĠĊĊĠŦĠĠĊĊŦĂĊŦĂĊĊĠĊĠĠŦĊŦŦĠĂĊĠŦĠŦĊŦĠŦ	4543
Query	4616	CATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4544	ĊĂŢĊĊĠĀĊĊĀĠĊĠĠĊĠĂŢĠŢŢĠŢĊĠŢĠŢĠĠĊĠĀŢĠĊŢĊŢĊĀŢĠĂĊŢĠĠĊŢŢŢĀĊ	4603
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAG	4735
Sbjct	4604	ĊĠĠĊĠĂĊŦŤĊĠĂĊŤĊŦĠŦĠĂŦĂĠĂĊŦĠĊĂĂĊĂĊĠŦĠŦĠŤĊĂĊŤĊĂĠĂĊĂĠŤĊĠĂŤŤŤĊĂĠ	4663
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4664	ccttgaccctacctttaccattgagacaaccacgctccccaggatgctgtctccaggac	4723
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4855
Sbjct	4724	tcaacgccgggcaggactggcaggggaagccaggcatctatagatttgtggcaccgg	4783
Query	4856	GGAGCGCCCCCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4784	ggagcgcccctccggcatgttcgactcgtccgtcctctgtgagtgctatgacgcgggctg	4843
Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4844	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4903

Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035
Sbjct	4904	cccgggcttcccgtgtgccaggaccatcttgaattttgggagggcgtctttacgggcct	4963
Query	5036	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTA	5095
Sbjct	4964	ĊĂĊŢĊĂŢĂŢĂĠĂŢĠĊĊĊĂĊŢŢŢŢĂŢĊĊĊĂĠĂĊĂĀĀĠĊĀĠĀĠŢĠĠĠĠĀĠĂĀĊŢŢŢĊĊŢŢĀ	5023
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGA	5155
Sbjct	5024	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGA	5083
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5084	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5143
Query	5216	ATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5144	ATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5203
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5204	CATGACATGCATGTCGGCTGATCTAGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGG	5263
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5264	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5323
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5324	GATCGTCTTGTCCGGGAGGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTT	5383
Query	5456	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5384	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5443
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5444	ŤĠĂĠĊĂĠŤŤĊĂĂĠĊĂĠĂĂĠĠĊĊĊŤĊĠĠĊĊŤĊĊŤĠĊĂĠĂĊĊĠĊĠŤĊĊĊĠĊĊĂŤĠĊĀĠĀĠĠŤ	5503
Query	5576	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5504	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5563
Query	5636	GTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5564	GTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5623
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCA	5755
Sbjct	5624	ĊĠĊĊĂŤŤĠĊŤŤĊĂŤŤĠĂŤĠĠĊŤŤŤŤĂĊĂĠĊŤĠĊĊĠŤĊĂĊĊĂĠĊĊĊĂĊŤĂĂĊĊĂĊŤĠĠĊĊĀ	5683
Query	5756	AACCCTCCTCTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGC	5815
Sbjct	5684	AACCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGC	5743
Query	5816	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5744	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCCATCGGCAGCGTTGGACTGGG	5803
Query	5876	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5804	ĠĂĂĠĠŤĊĊŤĊĠŤĠĠĂĊĂŤŤĊŤŤĠĊĂĠĠĠŤĂŤĠĠĊĠĊĠĠĠĊĠŤĠĠĊĠĠĠĠĀĠĊŤĊŤŤĠŤĀĠĊ	5863
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5864	attcaagatcatgagcggtgaggtcccctccacggaggacctggtcaatctgctgcccgc	5923
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAACAATACTGCGCCGGCA	6055
Sbjct	5924	catcctctcgcctggagcccttgtagtcggtgtgtctgcgcagcaatactgcgccgca	5983
Query	6056	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCG	6115
Sbjct	5984	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6043

Query	6116	GGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6175
Sbjct	6044	ĠĠĠĠAAĊĊĂŢĠŢŢŢĊĊĊĊĠĊĠĊĠĊĠĊĠŢĠĊĠĠĠĠĠĠĠĠĠĠ	6103
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6104	ŤĠĊĊĂŤĂĊŤĊĂĠĊĂĠĊĊŤĊĂĊŤĠŤĂĂĊĊĊĂĠĊŤĊĊŤĠĂĠĠĊĠĂĊŤĠĊĂŤĊĂĠŤĠĠĂŤĂĂĠ	6163
Query	6236	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6164	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6223
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGG	6355
Sbjct	6224	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGG	6283
Query	6356	GATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6284	GATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTAT	6343
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6344	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAGAAACGGGACGATGAG	6403
Query	6476	GATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6535
Sbjct	6404	GATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6463
Query	6536	CACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6464	CACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGT	6523
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6524	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6583
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6584	ĠĂĊŦĂĊŦĠĂĊĂĂŦĊŦŦĂĂĂŦĠĊĊĊĠŦĠĊĊĂĠĂŦĊĊĊĂŦĊĠĊĊĊĠĂĂŦŦĊŦŦĊĂĊĂĠĂĂŦŦ	6643
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6644	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6703
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6704	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6763
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6764	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6823
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6824	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTATCCA	6883
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6884	ĠĊŦĠŦĊĊĠĊŦĊĊĂŦĊŦĊŦĊĂĂĠĠĊĂĂĊŦŦĠĊĂĊĊĠĊĊĂĂĊĊĂŦĠĂĊŦĊĊĊĊŦĠĂĊĠĊĊĠĂ	6943
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6944	ĠĊŢĊĸŢĸĠĸĠĠĊŢĸĸĊĊŢĊŢĠŢĠĠĸĠĠĊĸĠĠĸĠĸŢĠĠĊĠĠĊĸĸĊĸŢĊĸĊĊĸĠĠĠŢŢĠĸ	7003
Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7004	grcagagaacaaagrggrgarrcrgactccrrcgarccgcrrgrggcagaggarga	7063
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCT	7195
Sbjct	7064	gcgggaggtctccgtacctgcagaaattctgcggaagtctcggagattcgcccgggccct	7123
Query	7196	GCCCGTCTGGGCCGGCCGGACTACAACCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255
Sbjct	7124	GCCCGTCTGGGCCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7183

0	7056	OF 3 OO 3 OO 3 OO FOR COMOO 3 TO COO TO COO COO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO SO OO	7015
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315 7243
Sbjct	7184	CTACGAACCACCTGTGGTCCATGGCTGCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	
Query	7316 7244	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGC	7375 7303
Sbjct	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Query Sbjct	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7363
Query	7436	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGccccccaGACTCCGACGTTGAGTCCTA	7495
Sbjct	7364	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGGGGGGGG	7423
Query	7496	TTCTTCCATGccccccTGGAGGGGGAGCCTGGGGATCTCAGCGACGGTCATG	7555
Sbjct	7424	TICTICCATGCCCCCGGGGGGGGGGGGGGGGGGGGGGGGG	7483
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCGTGTGCTCAATGTCTTATTC	7615
Sbjct	7484	GICGACGGICAGIAGIGGGGCCGACACGGAAGAIGICGIGIGCICAAIGICIIAIIC	7543
Query	7616	CTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAACGC	7675
Sbjct	7544	CIGGACAGGCGCACICGICACCCCGIGCGCGGAAGAACAAAACIGCCCAICAACGC	7603
Query	7676	ACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGTGC	7735
Sbjct	7604		7663
Query	7736	TTGCCAAAGGCAGAAGAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTACCA	7795
Sbjct	7664		7723
Query	7796	GGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCCGT	7855
Sbjct	7724		7783
Query	7856	AGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGGGC	7915
Sbjct	7784		7843
Query	7916	AAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAAGA	7975
Sbjct	7844		7903
Query	7976	CCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTTTT	8035
Sbjct	7904	CCTTCTGGAAGACAGTGTAACACCAATTGACACTACCATCATGGCCAAGAACGAGGTTTT	7963
Query	8036	CTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCT	8095
Sbjct	7964	CTGCGTTCAGCCTGAGAAGGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGACCT	8023
Query	8096	GGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8155
Sbjct	8024	GGGCGTGCGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTGGC	8083
Query	8156	CGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGT	8215
Sbjct	8084	CGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTCGT	8143
Query	8216	GCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTTGA	8275
Sbjct	8144		8203
Query	8276	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8335
Sbjct	8204	CTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGACCT	8263
Query	8336	GGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCC	8395
Sbjct	8264	GGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGCCC	8323

Query	8396	TCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTACT	8455
Sbjct	8324	tcttaccaattcaagggggaaaactgcggctaccgcaggtgccgcgcgagcggcgtact	8383
Query	8456	GACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGAGC	8515
Sbjct	8384	ĠĂĊĂĂĊŤĂĠĊŤĠŤĠĠŤĂĂĊĂĊĊĊŤĊĂĊŤŤĠĊŤĂĊĂŤĊĂĂĠĠĊĊĊĠĠĠĊĂĠĊĊŤĠŤĊĠĀĠĊ	8443
Query	8516	CGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8575
Sbjct	8444	CGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGTGA	8503
Query	8576	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8635
Sbjct	8504	AAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACCAG	8563
Query	8636	GTACTCCGccccccggggacccccCACAACCAGAATACGACTTGGAGCTTATAACATC	8695
Sbjct	8564	GTACTCCGCCCCCCGGGGACCCCCCACAACCAGAATACGACTTGGAGCTTATAACATC	8623
Query	8696	ATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTTAC	8755
Sbjct	8624	ATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTTAC	8683
Query	8756	CCGTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACACACAC	8815
Sbjct	8684	CCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCAGT	8743
Query	8816	CAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACT	8875
Sbjct	8744	CAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATACT	8803
Query	8876	GATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTG	8935
Sbjct	8804	GATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAACTG	8863
Query	8936	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAG	8995
Sbjct	8864	TGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAAAG	8923
Query	8996	ACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	9055
Sbjct	8924	ACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGGGT	8983
Query	9056	GGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCG	9115
Sbjct	8984	GGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCCCG	9043
Query	9116	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCT	9175
Sbjct	9044	GAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTACCT	9103
Query	9176	CTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCT	9235
Sbjct	9104	CTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTCCAATAGCGGCCGCTGGCCGGCT	9163
Query	9236	GGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTC	9295
Sbjct	9164	GGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTGTC	9223
Query	9296	TCATGCCCGGCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCAT	9355
Sbjct	9224	TCATGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGCAT	9283
Query	9356	CTACCTCCTCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTTCC	9415
Sbjct	9284	ĊŦĂĊĊŦĊĊŤĊĊĊĊĂĂĊĊĠĂŤĠĂĂĠĠŤŤĠĠĠĠŤĂĂĂĊĂĊŤĊĊĠĠĊĊŤĊŤŤĂĂĠĊĊĂŤŤŤĊĊ	9343
Query	9416	TGtttttttttttttttttttttttttttttttttttt	9475
Sbjct	9344	igititititititititititititititititititi	9403
Query	9476	tttootttcttttcccttottAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9535
Sbjct	9404	TTTCCTTTCTTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT	9463

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GTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC
Query
     9536
                                                         9595
          GTGAAAGGTCCGTGAGCCGCTTGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC
     9464
                                                         9523
Sbjct
     9596
            9596
Query
     9524
            9524
Sbjct
         Α
Score = 597 bits (323), Expect = 6e-167 Identities = 337/343 (98%), Gaps = 4/343 (1%)
Strand=Plus/Plus
    - 1
         GCCAGCCCCTGA-TGGGGGCGACACTCCACCATGA-ATCACTCCCCTGTGAGGAACTAC
                                                        58
Query
         26
                                                        83
Sbjct
Query
         TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGG
     59
                                                        118
         TGTCTTCACGCAGAAAGCGTCTAGCCATGGCGTTAGTATGAGTGTCGTGCAGCCTCCAGG
Sbjct
     84
                                                        143
         Accepted CCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC
Query
     119
                                                        178
         ACCCCCCTCCCGGGAGAGCCATAGTGGTCTGCGGAACCGGTGAGTACACCGGAATTGCC
     144
                                                        203
Sbjct
     179
         AGGACGACCGGGTCCTTTCTTGGATAAACCCGCTCAATGCCTGGAGATTTTGGGCGTGCCC
                                                        238
Query
         204
         AGGACGACCGGGTCCTTTCTTGGATCAACCCGCTCAATGCCTGGAGATTTGGGCGTGCCC
                                                        263
Sbjct
     239
         CCGCAAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATA
                                                        298
Query
         Sbjct
     264
                                                        323
Query
     299
         GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC
                                           341
         GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC
     324
                                           366
Sbjct
```

>dbj|DJ065332.1| MCV Replicon Shuttle Vectors Length=11509

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Score = 1.104e+04 bits (5978), Expect = 0.0 Identities = 6116/6183 (98%), Gaps = 8/6183 (0%)
Strand=Plus/Plus
Query
     3418
         TGGCGCCCATCACGGCGTACGCCCAGCAGAGGGCCTCCTAGGGTGTATAATCACCA
                                                        3477
          TGGCGCCTATTACGGCCTACTCCCAACAGACGCGAGGCCTACTTGGCTGCATCATCACTA
     3348
                                                        3407
Sbjct
         GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCAACTGCT
Query
     3478
                                                        3536
         3408
                                                        3466
Sbjct
         ACCCAAACCTTCCTGGCAACGTGCATCAATGGGGTATGCTGGACTGTCTACCACGGGGCC
                                                        3596
Query
     3537
         Sbjct
     3467
                                                        3526
     3597
         GGAACGAGGACCATCG-CATCACCCAAGGGTCCTGTCATCCAGATGTATACCAATGTGGA
                                                        3655
Query
                        GGCTCAÀAGACCCTTGCCGGC-CCAÀAGGGCCCAATCACCCAAATGTACACCAATGTGGA
     3527
                                                        3585
Sbjct
         CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG
                                                        3715
Query
     3656
          CCAAGACCTTGTGGGCTGGCCCGCTCCTCAAGGTTCCCGCTCATTGACACCCTGTACCTG
Sbjct
     3586
                                                        3645
Query
     3716
         CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG
                                                        3775
          CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG
     3646
                                                        3705
Sbjct
     3776
         AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTC
                                                        3835
Query
```

Sbjct	3706	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTC	3765
Query	3836	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTG	3895
Sbjct	3766	ggggggtccgctgttgtgccccgcgggacacgccgtgggcctattcagggccgcggtgtg	3825
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3826	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3885
Query	3956	GAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3886	GAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	3945
Query	4016	GGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3946	GGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4005
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4006	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4066	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4125
Query	4196	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4255
Sbjct	4126	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4185
Query	4256	CTCAGGAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTATGACATAATATTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
Query	4316	CATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4375
Sbjct	4246		4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4306	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4365
Query	4436	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TGCTCTGTCCACCACCGGAGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4425
Query	4496	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4485
Query	4556	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4486	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4545
Query	4616	CATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	CATCCCGACCAGCGGCGATGTTGTCGTCGTCGACCGATGCTCTCATGACTGGCTTTAC	4605
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAG	4735
Sbjct	4606	CGGCGACTCCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAG	4665
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4666		4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4785
Query	4856	GGAGCGCCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786		4845
Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975

Sbjct	4846	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035
Sbjct	4906	cccggggcttcccgtgtgccaggaccatcttgaattttgggagggcgtctttacgggcct	4965
Query	5036	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTA	5095
Sbjct	4966	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTA	5025
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGA	5155
Sbjct	5026	ĊĊŦĠĠŦĂĠĊĠŦĂĊĊĂĂĠĊĊĂĊĊĠŦĠŦĠĊĠĊŦĂĠĠĠĊŦĊĂĂĠĊĊĊĊŦĊĊĊĊĂŦĊĠŦĠĠĠĀ	5085
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5086	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5145
Query	5216	ATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5146	ÁTÁCAGÁCTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5205
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5206	CÁTGÁCÁTGCÁTGTCGGCCGÁCCTGGÁGGTCGTCÁCGÁGCÁCCTGGGTGCTCGTTGGCGG	5265
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5266	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5325
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5326	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTT	5385
Query	5456	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5386	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5445
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5446	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5505
Query	5576	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5506	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5565
Query	5636	GTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5566	GTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5625
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCA	5755
Sbjct	5626	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCA	5685
Query	5756	AACCCTCCTCTTCAACATATTgggggggTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGC	5815
Sbjct	5686	AACCCTCCTCTTCAACATATTGGGGGGGTGGGTGGCTGCCCAGCTCGCCGCCCCCGGTGC	5745
Query	5816	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5746	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCGCCCATCGGCAGCGTTGGACTGGG	5805
Query	5876	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5806	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5865
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5866	ATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5925
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAATACTGCGCCGGCA	6055
Sbjct	5926	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5985
Query	6056	CGTTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6115

Sbjct	5986	CGTTGGCCCGGGCGAGGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6045
Query	6116	GGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6175
Sbjct	6046	gggaaccatgtttcccccacgcactacgtgccggagagcgatgcagccgcccccccc	6105
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6106	r gccatactcagcagcctcactgtaacccagctcctgaggcgactgcatcagtggataag	6165
Query	6236	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6166	ctcggagtgtaccactccatgctccggttcctggctaagggacatctgggactggatatg	6225
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGG	6355
Sbjct	6226	ĊĠAĠĠŦĠĊŦĠAĠĊĠAĊŦŦŦAĀĠAĊĊŦĠĠĊŦĠAĀAĠĊĊĀĀĠĊŦĊĀŦĠĊĊĀĊĀĀĊŦĠĊĊŦĠĠ	6285
Query	6356	GATTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6286	ĠĂŦŤĊĊĊŤŤĠŤĠŤĊĊŤĠĊĊĀĠĊĠĊĠĠĠŦĂŤĀĠĠĠĠĠĠŤĊŤĠĠĊĠĀĠĠĀĠĀĊĠĠĊĀŤŤĀŤ	6345
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6346	ĠĊAĊAĊŢĊĠĊŢĠĊĊAĊŢĠŢĠĠAĠĊŢĠĀĠAŢĊĀĊŢĠĠĀĊĀŢĠŢĊĀĀĀĀĀĊĠĠĠĀĊĠĀŢĠĀĠ	6405
Query	6476	GATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6535
Sbjct	6406	GATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6465
Query	6536	CACCACGGGCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6466	caccacggcccctgtactccccttcctgcgccgaactataagttcgcgctgtggagggt	6525
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6526	grcrgcagagaaracgrggagaraaggcgggrgggggacrrccacracgrarcgggrar	6585
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6586	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCCATCGCCCGAATTCTTCACAGAATT	6645
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6646	ggacggggtgcgcctacacaggtttgcgccccttgcaagcccttgctgcggaggagg	6705
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6706	atcattcagagtaggactccacgagtacccggtggggtcgcaattaccttgcgagcccga	6765
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6766	accigacitaciciticaticitaticaticaticaticiticaticitaticacia	6825
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6826	gcccgggagaaggttgccgagagggtcacccccttctatgcccagctcctcgctatcca	6885
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6886	ġċtġtċċġċtċċatċtċtċaaġġċaaċttġċaċċġċċaaċċatġaċtċċċċtġaċġċċġa	6945
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6946	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGAGATGGGCGGCAACATCACCAGGGTTGA	7005
Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7006	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7065
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCT	7195
Sbjct	7066	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCT	7125
Query	7196	GCCCGTCTGGGCCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255

Sbjct	7126	GCCCGTCTGGGCGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7185
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315
Sbjct	7186	ĊŦĂĊĠĂĂĊĊĂĊĊŤĠŦĠĠŤĊĊĂŦĠĠĊŤĠĊĊĊĠĊŦĂĊĊĂĊĊŤĊĊĂĊĠĠŤĊĊĊĊŤĊĊŤĠŤĠĊĊ	7245
Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGC	7375
Sbjct	7246	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGC	7305
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7306	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7365
Query Sbjct	7436 7366	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGGACTCCGACGTTGAGTCCTA	7495 7425
Query	7496	TTCTTCCATGaaaaaaTGGAGGGGGAGCCTGGGGATCTCAGCGACGGTCATG	7555
Sbjct	7426		7485
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCG-TGTGC-TGCTCAATGTCTTAT	7613
Sbjct	7486		7543
Query	7614	TCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAAC	7673
Sbjct	7544	TCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAAC	7603
Query	7674	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGT	7733
Sbjct	7604	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGT	7663
Query	7734	GCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7793
Sbjct	7664	GCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7723
Query	7794	CAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCC	7853
Sbjct	7724	CAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCC	7783 7913
Query Sbjct	7854 7784	GTAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGG	7913
Query	7914	GCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAA	7973
Sbjct	7844		7903
Query	7974	GACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTT	8033
Sbjct	7904		7963
Query	8034	TTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGAC	8093
Sbjct	7964	TTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGAC	8023
Query	8094	CTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCTG	8153
Sbjct	8024	ĊŦĠĠĠĊĠŦĠĊĠĊĠŦĠŦĠĊĠĀĠĀĠĀĠĠŦĠĠĊĊĊĊĠŦĠĊĠŦĠ	8083
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbjct	8084	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8143
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct Query	8144 8274	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8203 8333
Sbjct	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8263
Query	8334	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
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Sbjct	8264	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8323
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8324	CCTCTTACCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8383
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Sbjct	8384	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8443
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8444	gccgcaggctccaggactgcaccatgctcgtgtgtgcgacgactacttagtcgttatctgt	8503
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8504	ĠĂĂĂĠŤĠĊĠĠĠĠĠŤĊĊŔĠĠŔĠĠŔĊĠĊĠĠĊĠŔĠĊĊŤĠŔĠŔĠĊĊŤŤĊŔĊĠĠŔĠĠĊŤŔŤĠŔĊĊ	8563
Query	8634	AGGTACTCCGcccccccggggacccccCACAACCAGAATACGACTTGGAGCTTATAACA	8693
Sbjct	8564	ÁGGTÁCTCCGCCCCCCGGGGÁCCCCCCACÁCACCAGÁATACGÁCTTGGÁGCTTÁTÁACA	8623
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTACCTT	8753
Sbjct	8624	ŤĊĂŦĠĊŤĊĊŤĊĊĂĂĊĠŤĠŤĊĀĠŤĊĠĊĊĊĂĊĠĂĊĠĠĊĠĊŤĠĠĂĂĂĠĂĠĠĠŤĊŤĂĊŤĂĊĊŤŤ	8683
Query	8754	ACCCGTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCA	8813
Sbjct	8684	ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACACACAC	8743
Query	8814	GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8744	GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8803
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8804	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8863
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8864	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAA	8923
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8924	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	8983
Query	9054	GTGGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCC	9113
Sbjct	8984	GTGGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCC	9043
Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9044	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9103
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9233
Sbjct	9104	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9163
Query	9234	CTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG	9293
Sbjct	9164	CTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG	9223
Query	9294	TCTCATGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGC	9353
Sbjct	9224	ŤĊŤĊĂŤĠĊĊĊĠĠĊĊĊĠĊŤĠĠŤŤĊŤĠĠŤŤŤŤĠĊĊŤĂĊŤĊĊŤĠĊŤĠĠĊŤĠ	9283
Query	9354	ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTT	9413
Sbjct	9284	ATCTACCTCCTCCCAACCGATGACGGTCCGGGTAAACACTCCGGCCTCTTAAGCCATTT	9343
Query	9414	CCTGttttttttttttttttttttttttttttttttttt	9473
Sbjct	9344	ccigitititititititititititititititititit	9403
Query	9474	tttteestttetettecettettaatggtggctccatcttagccctagtcacggctag	9533

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9404
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Sbjct
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                                                             9593
Query
          9464
                                                             9523
Sbjct
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          | | |
Sbjct
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Score = 597 bits (323), Expect = 6e-167 Identities = 337/343 (98%), Gaps = 4/343 (1%)
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Query
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Sbjct
     26
     59
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                                                            118
Query
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     84
                                                            143
     119
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                                                            178
Query
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                                                            203
Sbjct
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                                                            238
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     204
                                                            263
Sbjct
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                                                            298
         CCGCGAGACTGCTAGCCGAGTAGTGTTGGGTCGCGAAAGGCCTTGTGGTACTGCCTGATA
Sbjct
     264
                                                            323
         GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC
     299
Query
         GGGTGCTTGCGAGTGCCCCGGGAGGTCTCGTAGACCGTGCACC
Sbjct
     324
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>emb|CS619798.1| Sequence 7 from Patent EP1801116 Length=11509

Sort alignments for this subject se E value Score Percent identity Query start position Subject sta

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Score = 1.104e+04 bits (5978), Expect = 0.0 Identities = 6116/6183 (98%), Gaps = 8/6183 (0%)
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                                                          3477
Query
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     3348
                                                          3407
Sbjct
     3478
          GCCTGACTGGCCGGGACAAAAACCAAGTGGAGGGTGAGGTCC-AGATCGTGTCAACTGCT
                                                          3536
Query
          3408
                                                          3466
Sbjct
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                                                          3596
Query
          3467
                                                          3526
Sbjct
     3597
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                                                          3655
Query
          3527
                                                          3585
Sbjct
Query
     3656
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                                                          3715
          Sbjct
     3586
                                                          3645
     3716
          CGGCTCCTCGGACCTTTACCTGGTCACGAGGCACGCCGATGTCATTCCCGTGCGCCGGCG
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Query
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     3646
                                                          3705
Sbjct
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Query	3776	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTC	3835
Sbjct	3706	AGGTGATAGCAGGGGTAGCCTGCTTTCGCCCCGGCCCATTTCCTACTTGAAAGGCTCCTC	3765
Query Sbjct	3836 3766	GGGGGGTCCGCTGTTGTGCCCCGCGGGACACGCCGTGGGCCTATTCAGGGCCGCGGTGTG	3895 3825
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3826		3885
Query	3956	GAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3886		3945
Query	4016	GGCCCACCTGCATGCTCCCACCGGCAGCGGTAAGAGCACCAAGGTCCCGGCTGCGTACGC	4075
Sbjct	3946		4005
Query	4076	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4135
Sbjct	4006	AGCCCAGGGCTACAAGGTGTTGGTGCTCAACCCCTCTGTTGCTGCAACGCTGGGCTTTGG	4065
Query	4136	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4195
Sbjct	4066		4125
Query	4196	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4255
Sbjct	4126	TACCACTGGCAGCCCCATCACGTACTCCACCTACGGCAAGTTCCTTGCCGACGGCGGGTG	4185
Query	4256	CTCAGGAGGTGCTTATGACATAATATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4315
Sbjct	4186	CTCAGGAGGTGCTTATGACATAATTTGTGACGAGTGCCACTCCACGGATGCCACATC	4245
Query	4316	CATCTTGGGCATCGGCACTGTCCTTGACCAAGCAGAGACTGCGGGGGGGG	4375
Sbjct	4246		4305
Query	4376	GCTCGCCACTGCTACCCCTCCGGGCTCCGTCACTGTGTCCCATCCTAACATCGAGGAGGT	4435
Sbjct	4306	getegeeactgetaceecteeggeteegteactgtgteecateetaacategaggaggt	4365
Query	4436	TGCTCTGTCCACCACCGGAGATCCCCTTTTACGGCAAGGCTATCCCCCTCGAGGTGAT	4495
Sbjct	4366	TĠĊŢĊŢĠŢĊĊĄĊĊĠĠĠĠĠĠĠŢĠĄŢ	4425
Query	4496	CAAGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4555
Sbjct	4426	CAAGGGGGGAAGACATCTCATCTTCTGCCACTCAAAGAAGAAGTGCGACGAGCTCGCCGC	4485
Query	4556	GAAGCTGGTCGCATTGGGCATCAATGCCGTGGCCTACTACCGCGGTCTTGACGTGTCTGT	4615
Sbjct	4486	gaagetggtegeattggeeateaatgeegtggeetaetaeegeggtettgaegtgtetgt	4545
Query	4616	CATCCCGACCAGCGGCGATGTTGTCGTCGTGTCGACCGATGCTCTCATGACTGGCTTTAC	4675
Sbjct	4546	catcccgaccagcgcgatgttgtcgtcgtgtcgaccgatgctctcatgactggctttac	4605
Query	4676	CGGCGACTTCGACTCTGTGATAGACTGCAACACGTGTGTCACTCAGACAGTCGATTTCAG	4735
Sbjct	4606	ĊĠĠĊĠĀĊŦŦĊĠĀĊŦĊŦĠŦĠĀŦĀĠĀĊŦĠĊĀĀĊĀĊĠŦĠŦĠŦĊĀĊŦĊĀĠĀĊĀĠŦĊĠĀŦŦŦĊĀĠ	4665
Query	4736	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGAC	4795
Sbjct	4666	CCTTGACCCTACCTTTACCATTGAGACAACCACGCTCCCCCAGGATGCTGTCTCCAGGAC	4725
Query	4796	TCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4855
Sbjct	4726	TCAACGCCGGGGCAGGACTGGCAGGGGAAGCCAGGCATCTATAGATTTGTGGCACCGGG	4785
Query	4856	GGAGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTG	4915
Sbjct	4786	GGAGCGCCCTCCGGCATGTTCGACTCGTCCGTCCTCTGTGAGTGCTATGACGCGGGCTG	4845

Query	4916	TGCTTGGTATGAGCTCACGCCCGCCGAGACTACAGTTAGGCTACGAGCGTACATGAACAC	4975
Sbjct	4846	TĠĊŢŢĠĠŢĀŢĠĂĠĊŢĊĀĊĠĊĊĠĊĊĠĠĠĠĠĠŢĀĊĀŢĠĀĠĊŢĀĊĠĠĠĊĠŢĀĊĀŢĠĀĀĊĀĊ	4905
Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035
Sbjct	4906	cccggggcttcccgtgtgccaggaccatcttgaattttgggagggcgtctttacgggcct	4965
Query	5036	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTA	5095
Sbjct	4966	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTA	5025
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGA	5155
Sbjct	5026	cctggtagcgtaccaagccaccgtgtgcgctagggctcaagccccttccccatcgtgga	5085
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5086	ccagatgtggaagtgtttgatccgccttaaacccaccctcatgggccaacaccctgct	5145
Query	5216	ATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5146	atacagactgggcgctgttcagaatgaagtcaccctgacgcacccaatcaccaaatacat	5205
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5206	catgacatgcatgtcggccgacctggaggtcgtcacgagcacctgggtgctcgttggcgg	5265
Query	5336	CGTCCTGGCTGCTCGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5266	cgtcctgctgctctgccgcgtattgcctgtcaacaggctgcgtggtcatagtgggcag	5325
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
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Sbjct	5386	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5445
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Sbjct	5506	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5565
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Sbjct	5566	gradattroatcagradatacaatactragcagaccratcaacactaccragradaccc	5625
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Query	5756	AACCCTCCTCTTCAACATATTggggggTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGC	5815
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Query	5816	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCCCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5746	cectacteccttteteeeteeteecteecteeceeceeceeceec	5805
Query	5876	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5806	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5865
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Sbjct	5866	ATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5925
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5926	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5985

Query	6056	CGTTGGCCCGGGCGAGGGGCCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCG	6115
Sbjct	5986	ĊĠŦŦĠĠĊĊĊĠĠĠĊĠAĠĠĠĠĊAĠŦĠĊAAŦĠĠAŦĠAAĊĊĠĠĊŦAAŦAĠĊĊŦĊĊĊĊĠ	6045
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Sbjct	6046	ĠĠĠĠŔŔĊĊŔŢĠŢŢŢĊĊĊĊŔĊĠĊŔĊŢŔĊĠŢĠĊĊĠĠŔĠŔĠĊĠŔŢĠĊŔĠĊĊĠĊĊĠĊĠŢĊŔĊ	6105
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
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Query	6236	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6166	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6225
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Sbjct	6346	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6405
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Sbjct	6466	CACCACGGGCCCCTGTACTCCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGT	6525
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Sbjct Query	6526 6656	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6585 6715
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Ouerv	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
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Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbict	6706		6765
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
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Sbjct	7006		7065
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Sbjct	7066		7125

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Sbjct	7126	gcccgtctgggcgccggccggactacaaccccccgctagtagagacgtggaaaaagcctga	7185
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Sbjct	7186	ctacgaaccaccigigetecatggetgecegetaccacciccacggtecectetgigee	7245
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Sbjct	7306	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7365
Query	7436	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGcccccGACCTCCGACGTTGAGTCCTA	7495
Sbjct	7366	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGCCCCCCGACTCCGACGTTGAGTCCTA	7425
Query	7496	TTCTTCCATGeeeeccTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7555
Sbjct	7426	TTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7485
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCG-TGTGC-TGCTCAATGTCTTAT	7613
Sbjct	7486	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATG-CGATC-GCCTGCTCAATGTCTTAT	7543
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Sbjct	8324	ĊĊŢĊŢŢŖĊĠŖŖŢĊŖŖĠĠĠĠĠŖŖĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	8383
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Query	8634	AGGTACTCCGeeeecceggggacceeeaCAACCAGAATACGACTTGGAGCTTATAACA	8693
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Sbjct Query	8624 8754	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGGCGCTGGAAAGAGGGTCTACTACCTT  ACCCGTGACCCTACAACCCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACACTCCA	8683 8813
Sbjct	8684	ACCCGTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAGCACACTCCA	8743
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Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
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Sbjct	8924		8983
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Query	9414	CCTGttttttttttttttttttttttttttttttttttt	9473
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Sbjct	3764	ggggggtccgctgttgtgccccgcgggacacgccgtgggcctattcagggccgcggtgtg	3823
Query	3896	CACCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3955
Sbjct	3824	CÁCCCGTGGAGTGGCTAAAGCGGTGGACTTTATCCCTGTGGAGAACCTAGGGACAACCAT	3883
Query	3956	GAGATCCCCGGTGTTCACGGACAACTCCTCTCCACCAGCAGTGCCCCAGAGCTTCCAGGT	4015
Sbjct	3884	ĠĂĠĂŦĊĊĊĊĠĠŦĠŦŦĊĂĊĠĠĂĊĂĂĊŦĊĊŦĊŦĊĊĂĊĊĂĠĊĀĠŦĠĊĊĊĊĂĠĂĠĊŦŦĊĊĂĠĠŦ	3943
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Sbjct	4064	TGCTTACATGTCCAAGGCCCATGGGGTTGATCCTAATATCAGGACCGGGGTGAGAACAAT	4123
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Sbjct	4304		4363
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Sbjct	4424		4483
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Sbjct	4724	ŤĊĂĂĊĠĊĊĠĠĠĠĊĂĠĠĂĊŤĠĠĊĀĠĠĠĠĀĀĠĊĊĀĠĠĊĂŤĊŤĀŤĀĠĀŤŤŤĠŤĠĠĊĀĊĊĠĠĠ	4783
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Query	4976	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	5035
Sbjct	4904	CCCGGGGCTTCCCGTGTGCCAGGACCATCTTGAATTTTGGGAGGGCGTCTTTACGGGCCT	4963
Query	5036	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTA	5095
Sbjct	4964	CACTCATATAGATGCCCACTTTTTATCCCAGACAAAGCAGAGTGGGGAGAACTTTCCTTA	5023
Query	5096	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCATCGTGGGA	5155
Sbjct	5024	CCTGGTAGCGTACCAAGCCACCGTGTGCGCTAGGGCTCAAGCCCCTCCCCCATCGTGGGA	5083
Query	5156	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5215
Sbjct	5084	CCAGATGTGGAAGTGTTTGATCCGCCTTAAACCCACCCTCCATGGGCCAACACCCCTGCT	5143
Query	5216	ATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5275
Sbjct	5144	ATACAGACTGGGCGCTGTTCAGAATGAAGTCACCCTGACGCACCCAATCACCAAATACAT	5203
Query	5276	CATGACATGCATGTCGGCCGACCTGGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGG	5335
Sbjct	5204	CATGACATGCATGTCGGCTGATCTAGAGGTCGTCACGAGCACCTGGGTGCTCGTTGGCGG	5263
Query	5336	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5395
Sbjct	5264	CGTCCTGGCTGCTCTGGCCGCGTATTGCCTGTCAACAGGCTGCGTGGTCATAGTGGGCAG	5323
Query	5396	GATCGTCTTGTCCGGGAAGCCGGCAATTATACCTGACAGGGAGGTTCTCTACCAGGAGTT	5455
Sbjct	5324	GATCGTCTTGTCCGGGAGGCCGGCAATTATACCTGACAGGAGGTTCTCTACCAGGAGTT	5383
Query	5456	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5515
Sbjct	5384	CGATGAGATGGAAGAGTGCTCTCAGCACTTACCGTACATCGAGCAAGGGATGATGCTCGC	5443
Query	5516	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5575
Sbjct	5444	TGAGCAGTTCAAGCAGAAGGCCCTCGGCCTCCTGCAGACCGCGTCCCGCCATGCAGAGGT	5503
Query	5576	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5635
Sbjct	5504	TATCACCCCTGCTGTCCAGACCAACTGGCAGAAACTCGAGGTCTTTTGGGCGAAGCACAT	5563
Query	5636	GTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5695
Sbjct	5564	GTGGAATTTCATCAGTGGGATACAATACTTGGCGGGCCTGTCAACGCTGCCTGGTAACCC	5623
Query	5696	CGCCATTGCTTCATTGATGGCTTTTACAGCTGCCGTCACCAGCCCACTAACCACTGGCCA	5755
Sbjct	5624	c de catt de tre de transfer de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition d	5683
Query	5756	AACCCTCCTCTAACATATTggggggGTGGGTGGCTGCCCAGCTCGCCGCCCCGGTGC	5815
Sbjct	5684	aaccctcctcttcaacatattgggggggtggctgcccagctcgccgcccccggtgc	5743
Query	5816	CGCTACTGCCTTTGTGGGTGCTGGCCTAGCTGGCCGCCATCGGCAGCGTTGGACTGGG	5875
Sbjct	5744	cectacteccttteteeeteeteectaecteeceeceecatceecaceetteee	5803
Query	5876	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5935
Sbjct	5804	GAAGGTCCTCGTGGACATTCTTGCAGGGTATGGCGCGGGCGTGGCGGGAGCTCTTGTAGC	5863
Query	5936	ATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5995
Sbjct	5864	ATTCAAGATCATGAGCGGTGAGGTCCCCTCCACGGAGGACCTGGTCAATCTGCTGCCCGC	5923
Query	5996	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	6055
Sbjct	5924	CATCCTCTCGCCTGGAGCCCTTGTAGTCGGTGTGGTCTGCGCAGCAATACTGCGCCGGCA	5983
Query	6056	CGTTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6115

Sbjct	5984	CGTTGGCCCGGGCGAGGGGCAGTGCAATGGATGAACCGGCTAATAGCCTTCGCCTCCCG	6043
Query	6116	GGGGAACCATGTTTCCCCCACGCACTACGTGCCGGAGAGCGATGCAGCCGCCCGC	6175
Sbjct	6044		6103
Query	6176	TGCCATACTCAGCAGCCTCACTGTAACCCAGCTCCTGAGGCGACTGCATCAGTGGATAAG	6235
Sbjct	6104		6163
Query	6236	CTCGGAGTGTACCACTCCATGCTCCGGTTCCTGGCTAAGGGACATCTGGGACTGGATATG	6295
Sbjct	6164		6223
Query	6296	CGAGGTGCTGAGCGACTTTAAGACCTGGCTGAAAGCCAAGCTCATGCCACAACTGCCTGG	6355
Sbjct	6224		6283
Query	6356	GATTCCCTTTGTGTCCTGCCAGCGCGGGTATAGGGGGGGTCTGGCGAGGAGACGGCATTAT	6415
Sbjct	6284	GATTCCCTTTGTGTCCTGCCAGCGCGGTATAGGGGGGTCTGGCGAGGAGACGGCATTAT	6343
Query	6416	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAAAAACGGGACGATGAG	6475
Sbjct	6344	GCACACTCGCTGCCACTGTGGAGCTGAGATCACTGGACATGTCAGAAACGGGACGATGAG	6403
Query	6476	GATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6535
Sbjct	6404	GATCGTCGGTCCTAGGACCTGCAGGAACATGTGGAGTGGGACGTTCCCCATTAACGCCTA	6463
Query	6536	CACCACGGGCCCCTGTACTCCCTTCCTGCGCCGAACTATAAGTTCGCGCTGTGGAGGGT	6595
Sbjct	6464	caccacgggcccctgtactccccttcctgcgccgaactataagttcgcgctgtggagggt	6523
Query	6596	GTCTGCAGAGGAATACGTGGAGATAAGGCGGGTGGGGGACTTCCACTACGTATCGGGTAT	6655
Sbjct	6524	gtctgcagaggaatacgtggagataaggcgggtgggggacttccactacgtatcgggtat	6583
Query	6656	GACTACTGACAATCTTAAATGCCCGTGCCAGATCCCATCGCCCGAATTTTTCACAGAATT	6715
Sbjct	6584	gactactgacaatcttaaatgcccgtgccagatcccatcgcccgaattcttcacagaatt	6643
Query	6716	GGACGGGGTGCGCCTACACAGGTTTGCGCCCCCTTGCAAGCCCTTGCTGCGGGAGGAGGT	6775
Sbjct	6644	ĠĠĀĊĠĠĠĠŦĠĊĠĊĊŦĀĊĀĊĀĠĠŦŦŦĠĊĠĊĊĊĊŦŦĠĊĀĀĠĊĊĊŦŦĠĊŦĠĊĠĠĠĀĠĠĀĠĠŦ	6703
Query	6776	ATCATTCAGAGTAGGACTCCACGAGTACCCGGTGGGGTCGCAATTACCTTGCGAGCCCGA	6835
Sbjct	6704	atcattcagagtaggactccacgagtacccggtggggtcgcaattaccttgcgagcccga	6763
Query	6836	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6895
Sbjct	6764	ACCGGACGTAGCCGTGTTGACGTCCATGCTCACTGATCCCTCCC	6823
Query	6896	GGCCGGGAGAAGGTTGGCGAGAGGGTCACCCCCTTCTATGGCCAGCTCCTCGGCTAGCCA	6955
Sbjct	6824	ĠĠĊĊĠĠĠĀĠĀĀĠĠŤŤĠĠĊĠĀĠĀĠĠĠŤĊĀĊĊĊĊŤŤĊŤĀŤĠĠĊĊĀĠĊŤĊĊŤĊĠĠĊŤĀŤĊĊĀ	6883
Query	6956	GCTGTCCGCTCCATCTCTCAAGGCAACTTGCACCGCCAACCATGACTCCCCTGACGCCGA	7015
Sbjct	6884	ġĊŢĠŢĊĊĠĊŢĊĊĂŢĊŢĊŦĊAAĠĠĊĀĀĊŢŢĠĊĀĊĊĠĊĊĀĀĊĊĀŢĠĀĊŢĊĊĊŢĠĀĊĠĊĊĠĀ	6943
Query	7016	GCTCATAGAGGCTAACCTCCTGTGGAGGCAGGATGGGCGGCAACATCACCAGGGTTGA	7075
Sbjct	6944	ġĊŢĊĸŢĸĠĸĠĠĊŢĸĸĊĊŢĊŢĠŢĠĠĸĠĠĊĸĠĠĸĠĸŢĠĠĊĠĠĊĸĸĊĸŢĊĸĊĊĸĠĠĠŢŢĠĸ	7003
Query	7076	GTCAGAGAACAAAGTGGTGATTCTGGACTCCTTCGATCCGCTTGTGGCAGAGGAGGATGA	7135
Sbjct	7004	ĠŦĊAĠĀĠĀĀĊĀĀĀĠŦĠĠŦĠĀŦŦĊŦĠĠĀĊŦĊĊŦŦĊĠĀŦĊĊĠĊŦŦĠŦĠĠĊĀĠĀĠĠĀĠĠĀŦĠĀ	7063
Query	7136	GCGGGAGGTCTCCGTACCTGCAGAAATTCTGCGGAAGTCTCGGAGATTCGCCCGGGCCCT	7195
Sbjct	7064	ĠĊĠĠĠĠĠĠĊĊĊĠĠĠĊĊĊĠĠĠĊĊĊĊĠĠĠĠĊĊĊĊ	7123
Query	7196	GCCCGTCTGGGCGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7255

Sbjct	7124	GCCCGTCTGGGCCGGCCGGACTACAACCCCCCGCTAGTAGAGACGTGGAAAAAGCCTGA	7183
Query	7256	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7315
Sbjct	7184	CTACGAACCACCTGTGGTCCATGGCTGCCCGCTACCACCTCCACGGTCCCCTCCTGTGCC	7243
Query	7316	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGC	7375
Sbjct	7244	TCCGCCTCGGAAAAAGCGTACGGTGGTCCTCACCGAATCAACCCTATCTACTGCCTTGGC	7303
Query	7376	CGAGCTTGCCACCAAAAGTTTTGGCAGCTCCTCAACTTCCGGCATTACGGGCGACAATAC	7435
Sbjct	7304	cgagcttgccaccaaaagttttggcagctcctcaacttccggcattacgggcgacaatac	7363
Query	7436	GACAACATCCTCTGAGCCCGCCCCTTCTGGCTGccccccGACTCCGACGTTGAGTCCTA	7495
Sbjct	7364	ĠAĊAAĊĀTĊĊŢĠĠĠĊĊĠĠĊĊĊĊŢŢĊŢĠĠĊŢĠĊĊĊĊĊĠAĊŢĊĊĠAĊĠŢŢĠĀĠŢĊĊŢĀ	7423
Query	7496	TTCTTCCATGccccccTGGAGGGGAGCCTGGGGATCCGGATCTCAGCGACGGTCATG	7555
Sbjct	7424	TTCTTCCATGCCCCCCTGGAGGGGGAGCCTGGGGATCCGGATCTCAGCGACGGGTCATG	7483
Query	7556	GTCGACGGTCAGTAGTGGGGCCGACACGGAAGATGTCG-TGTGC-TGCTCAATGTCTTAT	7613
Sbjct	7484	ĠŤĊĠĂĊĠĠŤĊĂĠŤĂĠŤĠĠĠĠĊĊĠĂĊĂĊĠĠĂĂĠĂŤĠ~ĊĠAŤĊ~ĠĊĊŤĠĊŤĊĂĂŤĠŤĊŤŤĂŤ	7541
Query	7614	TCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAAC	7673
Sbjct	7542	TCCTGGACAGGCGCACTCGTCACCCCGTGCGCTGCGGAAGAACAAAAACTGCCCATCAAC	7601
Query	7674	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGT	7733
Sbjct	7602	GCACTGAGCAACTCGTTGCTACGCCATCACAATCTGGTGTATTCCACCACTTCACGCAGT	7661
Query	7734	GCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7793
Sbjct	7662	GCTTGCCAAAGGCAGAAGAAAGTCACATTTGACAGACTGCAAGTTCTGGACAGCCATTAC	7721
Query	7794	CAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCC	7853
Sbjct	7722	CAGGACGTGCTCAAGGAGGTCAAAGCAGCGGCGTCAAAAGTGAAGGCTAACTTGCTATCC	7781
Query	7854	GTAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGG	7913
Sbjct	7782	GTAGAGGAAGCTTGCAGCCTGACGCCCCCACATTCAGCCAAATCCAAGTTTGGCTATGGG	7841
Query	7914	GCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAA	7973
Sbjct	7842 7974	GCAAAAGACGTCCGTTGCCATGCCAGAAAGGCCGTAGCCCACATCAACTCCGTGTGGAAA GACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTT	7901 8033
Query Sbict	7902	GACCTTCTGGAAGACAGTGTAACACCAATAGACACTACCATCATGGCCAAGAACGAGGTT	7961
Query	8034	TTCTGCGTTCAGCCTGAGAAGGGGGGTCGTAAGCCAGCTCGTCTCATCGTGTTCCCCGAC	8093
Sbict	7962		8021
Query	8094	CTGGGCGTGCGCGTGTGCGAGAAGATGGCCCTGTACGACGTGGTTAGCAAGCTCCCCCTG	8153
Sbict	8022		8081
Query	8154	GCCGTGATGGGAAGCTCCTACGGATTCCAATACTCACCAGGACAGCGGGTTGAATTCCTC	8213
Sbict	8082		8141
Query	8214	GTGCAAGCGTGGAAGTCCAAGAAGACCCCGATGGGGTTCTCGTATGATACCCGCTGTTTT	8273
Sbjct	8142		8201
Query	8274	GACTCCACAGTCACTGAGAGCGACATCCGTACGGAGGAGGCAATTTACCAATGTTGTGAC	8333
Sbjct	8202		8261
Query	8334	CTGGACCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8393
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Sbjct	8262	CTGGACCCCCAAGCCCGCGTGGCCATCAAGTCCCTCACTGAGAGGCTTTATGTTGGGGGC	8321
Query	8394	CCTCTTACCAATTCAAGGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8453
Sbjct	8322	CCTCTTACCAATTCAAGGGGGAAAACTGCGGCTACCGCAGGTGCCGCGCGAGCGGCGTA	8381
Query	8454	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8513
Sbjct	8382	CTGACAACTAGCTGTGGTAACACCCTCACTTGCTACATCAAGGCCCGGGCAGCCTGTCGA	8441
Query	8514	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8573
Sbjct	8442	GCCGCAGGGCTCCAGGACTGCACCATGCTCGTGTGTGGCGACGACTTAGTCGTTATCTGT	8501
Query	8574	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8633
Sbjct	8502	GAAAGTGCGGGGGTCCAGGAGGACGCGGCGAGCCTGAGAGCCTTCACGGAGGCTATGACC	8561
Query	8634	AGGTACTCCGcccccccgggg&cccccCACAACCAGAATACGACTTGGAGCTTATAACA	8693
Sbjct	8562	AGGTACTCCGCCCCCCGGGGACCCCCCACAACCAGAATACGACTTGGAGCTTATAACA	8621
Query	8694	TCATGCTCCTCCAACGTGTCAGTCGCCCACGACGCGCTGGAAAGAGGGTCTACTT	8753
Sbjct	8622	tcatgctcctccaacgtgtcagtcgcccacgacgccgctggaaagagggtctactacctt	8681
Query	8754	ACCCGTGACCCTACAACCCCCTCGCGAGAGCCGCGTGGGAGACAGCAAGACACTCCA	8813
Sbjct	8682	acccgrgaccctacaaccccctcgcgagagccgcgrgggagacagacagacacactcca	8741
Query	8814	GTCAATTCCTGGCTAGGCAACATAATCATGTTTGCCCCCACACTGTGGGCGAGGATGATA	8873
Sbjct	8742	ĠŤĊĂĂŤŤĊĊŤĠĠĊŤĂĠĠĊĂĀĊĂŤĂĂŤĊĂŤĠŤŤĠĊĊĊĊĀĊĂĊŤĠŤĠĠĠĊĠĀĠĠĂŤĠĂŤĂ	8801
Query	8874	CTGATGACCCATTTCTTTAGCGTCCTCATAGCCAGGGATCAGCTTGAACAGGCTCTTAAC	8933
Sbjct	8802	ĊŢĠŖŢĠŖĊĊŖŢŢŢĊŢŢŢŖĠĊĠŢĊĊŢĊŖŢŖĠĊŖĠĠĠŖŢĊŖĠŖĠĊŢĊŢŢŖŖĊ	8861
Query	8934	TGTGAGATCTACGGAGCCTGCTACTCCATAGAACCACTGGATCTACCTCCAATCATTCAA	8993
Sbjct	8862	TĠTĠAĠATĊTAĊĠĠAĠĊĊŦĠĊŦAĊŦĊĊATAĠAAĊĊAĊŦĠĠATĊŦAĊĊŦĊĊAATĊAŦŤĊAA	8921
Query	8994	AGACTCCATGGCCTCAGCGCATTTTCACTCCACAGTTACTCTCCAGGTGAAATCAATAGG	9053
Sbjct	8922	AĞACTCCATĞĞCCTCAĞCĞCATTTTCACTCCACAĞTTACTCTCCAĞĞTĞAAATCAATAĞĞ	8981
Query	9054	GTGGCCGCATGCCTCAGAAAACTTGGGGTCCCGCCCTTGCGAGCTTGGAGACACCGGGCC	9113
Sbjct	8982	ĠŤĠĠĊĊĠĊĂŤĠĊĊŤĊĂĠĂĂĂĂĊŤŤĠĠĠĠŤĊĊĊĠĊĊĊŤŤĠĊĠĂĠĊŤŤĠĠŔĠŔĊŔĊĊĠĠĠĊĊ	9041
Query	9114	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9173
Sbjct	9042	CGGAGCGTCCGCGCTAGGCTTCTGTCCAGAGGAGGCAGGGCTGCCATATGTGGCAAGTAC	9101
Query	9174	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9233
Sbjct	9102	CTCTTCAACTGGGCAGTAAGAACAAAGCTCAAACTCACTC	9161
Query	9234	CTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG	9293
Sbjct	9162	CTGGACTTGTCCGGTTGGTTCACGGCTGGCTACAGCGGGGGAGACATTTATCACAGCGTG	9221
Query	9294	TCTCATGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGC	9353
Sbjct	9222	TCTCATGCCCGGCCCCGCTGGTTCTGGTTTTGCCTACTCCTGCTCGCTGCAGGGGTAGGC	9281
Query	9354	ATCTACCTCCTCCCCAACCGATGAAGGTTGGGGTAAACACTCCGGCCTCTTAAGCCATTT	9413
Sbjct	9282	ATCTACCTCCTCCCCAACCGATGACGGTCCGGGTAAACACTCCGGCCTCTTAAGCCATTT	9341
Query	9414	CCTGttttttttttttttttttttttttttttttttttt	9473
Sbjct	9342	CCTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	9401
Query	9474	tttteeettteteetteeettAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAG	9533

Sbjct	9402	TTTT	TCCTTTCTTTTTCCCTTCTTTAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAG	9461
Query	9534		GAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGA	9593
Sbjct	9462		gaaaggtccgtgagccgcttgactgcagagagtgctgatactggcctctctgcaga	9521
Query	9594	TCA	9596	
Sbjct	9522	TCA	9524	

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